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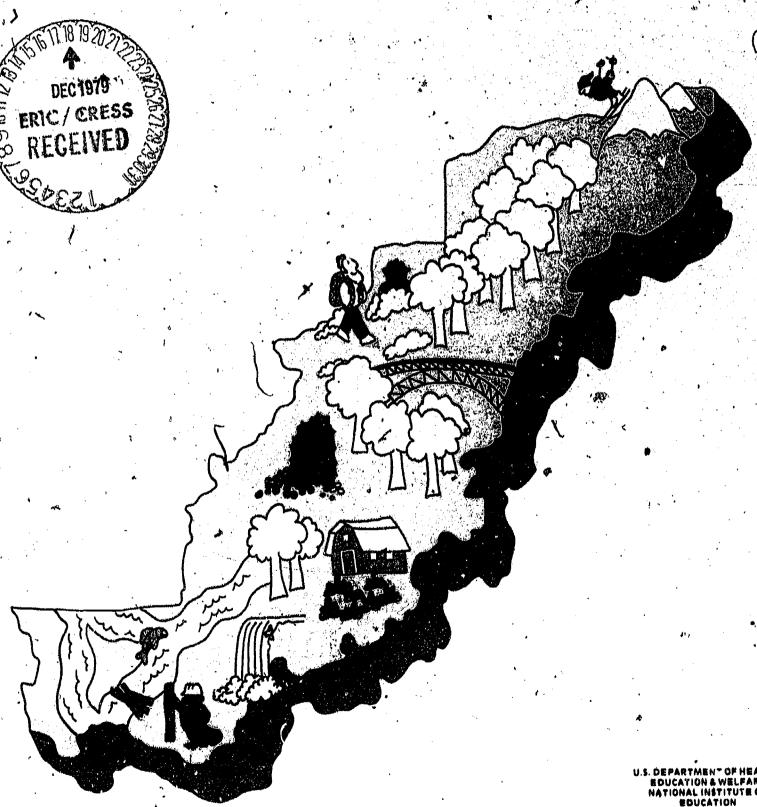
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IDENTIFIÈRS

ABSTRACT

With a cotal area of 197,116 square miles, the Appalachian Region has an uneven distribution of population, income, wealth and natural resources. The Region's 19.3 million people live in 397) counties and 5 independent cities in Virginia. Under 50% of the population live in metropolitan counties while only 25% live in rural counties. In 1975 the Region's natural population growth rate was only about 70% of the nation's. As natural growth has diminished, migratory movements both into and from the Region and within it play larger role in population changes of local areas. Economic productivity varies from one-sixth above the national average in Allegheny county, Pennsylvania, to less'than one-fourth of the U.S. level in eastern Kentucky. Appalachia also varies in the population's age structure, racial and ethnic composition, educational attainment, labor force participation, poverty level, health conditions, and other facets of economic life and socioeconomic wellbeing. This reference book presents information on the Region's topography: population change, concentration and dispersal: population growth trends: population ethnicity: population 65 years of age and older; labor force, employment, and employment trends; employment by industry: personal income: poverty status: education attainment and school enrollment: nonfederal physicians, infant mortality trends: housing: coal production: mineral industry establishments: agriculture and farm land: and local governments. (Author/NEC)

Appalachia--A Reference Book



U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE NATIONAL INSTITUTE OF

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What Is ARC?

The Appalachian Regional Commission (ARC) is composed of the Governors of the 13 states that comprise Appalachia and a federal cochairman who is appointed by the President. A states' cochairman is elected from among the Governors; the position is rotated among the states. The Governors appoint a states' Washington representative who represents the interests of the states on a day-to-day basis within the Commission. The Commission's staff of about 110 persons is headed by an executive director.

For many years, Appalachia, despite its rich natural resources, has suffered from chronic economic and social distresses: isolation; a lack of transportation to counteract its inaccessibility; boom-and-bust cycles of prosperity and poverty; unemployment; inadequate public facilities; a lack of social services. The Commission was established by Congress in 1965 as a means of building a better economy and a better quality of life for Appalachia and its inhabitants.

ARC represents a unique experiment in cooperation and in American government. The Commission's development program is the largest and most diversified effort of its kind ever undertaken in the United States. And ARC itself is a unique partnership of federal, state and local government.

This partnership is the key to the way in which ARC does business for Appalachia. A development program or a specific project proposal can be brought before the Commission only by a state; no projects can be initiated at the federal level. All formal approvals of state investment programs require the affirmative vote of a majority of the Commission's member states and the federal cochairman.

A basic element in the ARC partnership is local participation in the Commission's development program. To assist local planning and to ensure that ARC funds are used to . serve local communities, the Commission, through its member-states, works with areawide planning and development agencies, known as local development districts (LDDs). Each LDD has a board, consisting of elected officials and public representatives of several counties, and a professional staff. The board and staff work with the local citizenry to assess local needs, to determine local priorities and to prepare local development plans based upon those needs and priorities.

The primary goals of the Appalachian program include:

providing every person living in the Region with the health and skills needed to compete in everyday life wherever he or she chooses to live

attracting new industry and manufacturing to the Region, thus providing more jobs and a more diversified economic base. To accomplish these aims, Apparachia must have an adequate transportation system, community facilities (sewers, water and solid waste disposal systems, housing and related amenities), schools and hospitals and must take advantage of its rich natural resources without harm to the environment.

What Is Appalachia?

Appalachia, as defined in the legislation from which the Appalachian Regional Commission derives its authority, is a 195,000-square-mile region that follows the spine of the Appalachian Mountains from southern New York to northern Mississippi. It includes all of West Virginia and parts of twelve other states: Alabam Georgia, Kentucky, Maryland, Mississippi, New York, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee and Virginia.

Appalachia— A Reference Book

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Foreword

his publication provides a factual overall perspective of important aspects of the Appalachian Region and recent trends. This, the second edition, has numerous additions, including several tables with local development district data. The Commission would appreciate receiving suggestions from users of this edition for additional types of data needed, sources of better or more recent information or any errors which need to be corrected.

The regional data summarized herein provide information for the Region, subregions, state parts and logal development districts. The Commission data bank also has extensive data for county units. For subcounty units (places or subdivisions of counties) less extensive material is available. Generally this level of detail must be secured from states, districts or localities; from planning agencies; or from other specialized agencies which have developed detailed data files for their geographic or subject matter areas of concern. In preparing data for the entire Region,/consistency of data source and definitions are important to provide uniformity of treatment for all included areas.

The Commission extends its appreciation to all sources who provided data for this edition.

HENRY H. KREVOR Executive Director

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Introduction The Appalachian Region

he Appalachian Region follows the spine of the Appalachian Mountains from the Catskill Mountains of new York to northeastern Mississlopi. It includes all of West Virginia and parts of twelve other states: Alabama, Georgia, Kentucky, Maryland, Mississippi, New York, North Carolina, Ohio, Pennsylvania, South a: Carolina, Tennessee and Virginia. See map on page 7.

With a total grea of 197,116 square miles (land, 194,871; water, 2,245), the Appalachian Region is one-fourth larger than California and extends over almost exactly the same span of latitude. The extremely uneven topography of Appalachia consists of oid, rounded and rugged mountains culminating in Mount Mitchell (6,684 feet, or 2,089 meters), rough mountains and hill lands derived from deeply dissected, plateaus, folded mountains forming long ridges enclosing valleys of varying width, high rolling plateaus (glaciated with lakes in the northern part of the Region) and valley lowlands and piedmont on the Region's margins.

The only ports in this landlocked region are on Lake Erie and a few of the major rivers. It is served by a rail network (concentrated to some extent in the coal-mining regions) and a varied network of highways, including portions of the Interstate system and segments of the Appalachian Development Highway System which are now open. Modern transportation communications technology have greatly reduced the historic isolation of the Appalachian mountain and hill country, though many rural "pockets" remain. Educational opporbefore for Appalachian youth.

The distribution of population, income, wealth and natural resources matches the unevenness of topography. The Region's 19.3 million people (1977) live in 397 counties and 5 independent cities in Virginia, which range in population size from 1.5 million (Allegheny County, Pennsylvania) to 2.6 thousand (Highland County, Virginia). In 1976 the average density was 99 persons per square mile combared to 181 per square mile for the rest of the eastern half of the United States. On the other hand, 50 percent of Appalachia's population live in metropolitan counties while only 25 percent live in rural counties. Inmigration occurred in the 1970s in contrast to the overall outmigration of the 1960s. The northern subregion, however, continues to experience outmigration.

In 1975 the Appalachian Region reported its lowest level of birth rates (14 per 1.000 population), lower than the U.S. average (15), while its death rate of 10 per 1,000 was a full percentage point higher. As a résult the Region's · natural population growth rate was only about 70 percent of the nation's. As natural growth has diminished (especially in the northeastern portion of the Region), migratory movements both into and from the Region and within it, play a larger role in population changes of local areas.

Economic productivity, measured by per capita earnings at place of work, varies from one sixth above the national average in Allegheny County, Pennsylvania, to less than one-fourth of the U.S. level in the poorest county in eastern Kentucky. Although the regional per capita income level gained on the nation between 1965 and 1976, it remains about 15 percent lower than the na-

tunities are also greater than ever tional average. No Appalachian state area equals the U.S. level of per capita income, and only seven counties in the Region did in 1976 (1975 money income). The most rapid gain in income was in the central subregion, the slowest gain in the northern subregion.

> Manufacturing employment was more concentrated in Northern and Southern Appalachia than in the nation in 1975 but loss so in Central Appalachia. Measured against population, the Region had one-fifth more manufacturing jobs than the nation and relative to FICA covered employment, one-third more. The five leading manufacturing industry groups in Appalachia were: primary metals, textiles, apparel and textile products, machinery, and electrical and electronic inductries which accounted for 53 percent of the Region's manufacturing employment and nearly 15 percent of the nation's employment in these industries.

Huge reserves of good coal are found in some counties, while others are without economically significant mineral resources. Coal produced in Appalachia accounted for 61 percent of the total U.S. production in 1975. It is found chiefly in the northern and central subregions and has been mined primarily from underground seams. The share of surface mining has risen, reaching 44 percent in 1975.

Farm land and forests range from rich and valuable to poor and virtually worthless. A smaller proportion of land is devoted to farming in Appalachia than in the eastern United States. Farm land accounts for 32 percent, of Appalachian land compared to 44 percent of non-Appalachian eastern U.S. land. The Appalachian farms are generally smaller and the value of land and buildings (\$64,400) was only one-half

that in the rest of the eastern United States (\$129,300) in 1974.

Everywhere in Appalachia variety and diversity are found—in the age structure of the population, its racial and ethnic composition, educational attainment, labor force participation, levels of poverty, health conditions and services and many other facets of economic life and socioeconomic well-being.

Ten percent of the nation's local governments are found in Appalachia, but they spent only 6 percent of all funds spent by local governments in 1971–72. General local government revenue per capita is lower than the U.S. average (\$343 vs. \$510), and a greater proportion of it is provided by the state. Appalachian local governments also had lower percapita expenditures and a higher percentage of expenditures on education and highways than the nation. norm.

The Appalachian Subregions

The three subregions of Appalachia contrast sharply (see map on page 7). Northern Appalachia has the largest population, is most urbanized with the highest income levels, and is the most developed by most social and economic indicators. However, much of the northern subregion is below national average levels in favorable indicators, and its trends frequently lag the nation and are well behind the Region's rate of improvement in recent years, especially in Appalachian New York, Pennsylvania and Maryland

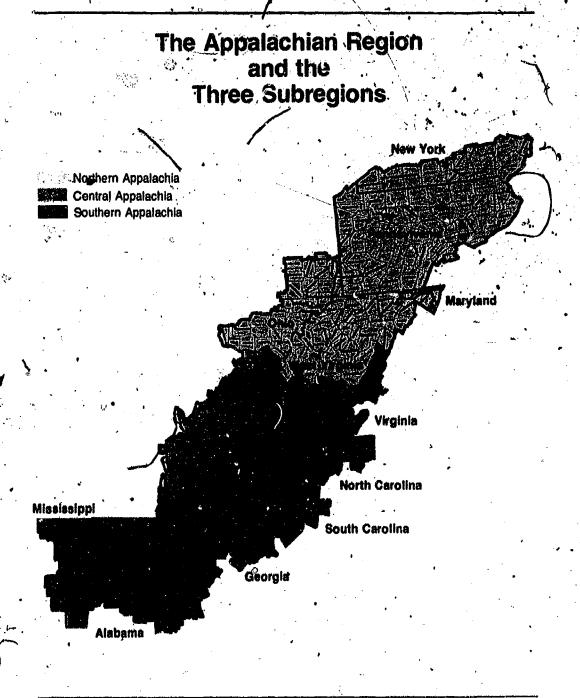
Central Appalachia on the other hand, has the smallest and least urbanized population, lowest levels of income and educational attainment, the poorest housing and by most social and economic measurements is

far behind regional and national averages. In recent years, however, many measures have improved rapidly, particularly levels of personal income.

Southern Appalachia is nearest the Region's average, with a developing economy. Its metropolitan and urban counties are rising toward national averages; in many instances the southern subregion has contrib-

uted the lion's share of regional gains.

Within all three subregions there exist relatively wide gaps between the principal metropolitan and urban counties and rural counties with smaller populations and markedly lower levels of living. The great diversity of conditions in the Appalachian Region is found at every geographic level.





Topography



Appalachian Topography

Geologically, the Appalachian Region of folded, faulted, old mountains of eastern North America extends from Newfoundland to Oklahoma; geographically the term is applied to the mountainous heart of this region, from the Gaspé Peninsula of Quebec to central Alabama. As defined by the Commission, the Appalachian Region lies entirely to the southwest of the Mohawk-Hudson Valley lowland, extending some 1,070 miles from the edge of the Catskill Mountains in New York to the coastal plain of northcentral Mississippi, comprising an area of 195,000 square miles (24,000) square miles in the state of West Virginia and the rest in parts of 12 states). The highest summits in the entire Region are in Appalachian North Carolina.

The varied terrain of Appalachia

types: mountains and high plateaus; hills and low plateaus; and plains and lowlands (see Table 1 on page 9). The mountain region, with its many included valleys, covers some 94,000 square miles (48 percent of the total). Of this the large valley region of east Tennessee comprises 6,000 square miles. Two types of mountain topography are found here: the rugged dissected massive mountains and the ridge and valley lands with their long linear ridges and parallel valleys.

Appalachian hill country (68,000 square miles; 35 percent of the total) is mostly highly dissected and quite rough terrain, though there are some low plateaus and open hill lands in these areas. The valleys are often narrow but not so deep as in the mountains.

Lowlands and plains in the Region tend to be rolling rather than flat, as they are fringing lowlands adjacent to the hills and mountains, excepting in the southwestern extremities of Appalachia. There the coastal plain

lowlands of Appalachian Mississippi and Alabama and the Middle Tennessee Valley of northern Alabama cover 20,000 square miles or two-thirds of the Region's 33,000 square miles of lowlands. The lowlands comprise 17 percent of the total land area of Appalachia.

In 1976 of the Region's 19.2 million people: the mountains had 8.0 million (42 percent), but 1.4 million of these were in the three large valley areas. Hill country with 8.1 million (42 percent) was incre populous, but 3.8 million were in two great metropolitan concentrations (Pittsburgh region and Birmingham). Population density. clsewhere in the hill country (74 persquare mile) is almost the same as in the mountain areas (76 per square mile) outside the large valleys. The lowlands and plains with 3.1 million people in 1976 (16 percent of the Region) average higher if density (93 per square mile), but this varies widely. (See Table 2 on page 10 and the map on page 11.)

Table 1
Terrain Types with Population Trends and Density
Appalachian Region

	Land Area	Popul	ation	Population	Repulation Density (
Appalachian Region Terrain Types	(square miles)	1976* (thousands)	1970† (thousands)	1970-76 (thousands)	1970-76 (percent)	1976 (per square mile)
Appalachian Region	194,871	19,194.4	18,217:1	977.3	5.4%	98 .
Mountains and High Plateaus	86,810	6,586.7	6,196:1	390.6	6.3%	76
Hills and Low Plateaus	74,979	9,539.9	9,204.9	335.1 *	3.6%	127
Pittsburgh Region and Birmingham	8,763	3,763.7	3,832.3	-68.7	⊸1.8%	429
Large Mountain Valleys	7,096	1;403.8	1,304.9	98.8	7.6%	198
Hill Country	59,120	4,372.5	4,067.6	304.9	7.5%	74
Plains and Lowlands	33,082	3,067.7	2,816.1	251.6	8.9% .	93

Source: Based on land resource regions of the United States with data from computer file defined to county units and adapted to Appalachian Region by ARC staff. U.S. Department of Agriculture, Land Resource Regions and Major Land Resource Areas of the United State. Agriculture Handbook 296 (Washington, D.C.: U.S. Government Printing Office, 1965).

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^{*}U.S. Bureau of Census provisional population estimates for July 1, 1976.

[†]U.S. Bureau of Census population statistics, including revised totals after 1970 final totals.

Land Resource Regions with Population Trends and Density
Appalachian Region

And the second second	1	Land Area	Popu	lation	Pepulation	Change	Population Density
Appalachian Land Resource Regions	Torrain Type*	1970 (square miles)	1976† (thousands)	1970* (thousands)	1970-76 (thousands)	1970-76 (percent)	(per square mile)
Appalachian Region	M,H,P	194,871	19,194.4	18,217.1	977.3	5.4%	98
Cumberland Plateau and		04.077	. 4 004 4	4. E04. D	440.0	0.40/	V
Mountains	M,H	24,677	1,664.1 632.8	1,521.8	142.3 68.1	9.4%	67 65
Mountains Hill Country	у М У Н	9,786 14,891	1,031.3	564.7 957.1	74.3	12.1 7.8	69
Eastern Allegheny Plateau	112	14,001	1,001.0	357.1	74.0	7.0	. 00
and Mountains	· M ′	17,185	1,227.4	1,182.0	45.4	3.8%	71
Southern Appalachian Ridges			0.005.0	0.040.0	2045.0		404
and Valleys	M,H,P	30,236	3,065.0	2,849.8	<u>~215.2</u>	7.6%	101
Mountains	M	20,264	1,371.1	1,255.8 ⁽¹⁾ 1,113.9	115.3 82.3	9.2 7.4、	• 68 207
East Tennessee Valley	H H	5,782 328	1,196.2 32.4	1,113.9 29.6	2.9	9.8	99
Valley of Virginia Middle Tennessee Valley	rı. P	3,862	465.4	450.6	14.8	3.3	120
Blue Ridge	M	12,783	774.6	705.6	69.0	9.8%	61
-	M,H	21,498	2,266.5	2,193.7	72.8	3.3%	· 105
Glaciated Allegheny Plateau , Mountain and High Plateau	M M	17,962	1,798.1	1,729.6	68.5	4.0	100
Hills and ' V Plateau	H .	3,536	468.4	464.2	4.3	0.9	132
Northern Appalachian Ridges	• • •	0,000	100.1		,,,		
and Valleys	M,H	9,816	957.9	919.9	38.0	4.1%	98
, Mountains	· M	8,830 .	782.8	758.4	24.3	3.2	89
Great Valle, -Shenandoah	1	, -,				· 62	
Valley * _	Н -	· 986 ·	175.1	161.5	13:7	8.5	178
Highland Run	H r	7,147	352.6	318.9	33.7	10.6%	49
,Western Allegheny Plateau	H .	5,204	391.0	368.2	22.8	6.2%	, 75
Central Allegheny Plateau	Н .	20,411	4,093.2	4,131.4	-38.1	-0.9%	· 201
Pittsburgh Region	H	7,648	3,111.0	3,187.4	-76.3	234	407
Balance of Plateau	H	12,763	982.2	944.0	38.2	4.0	77
Sand Mountain	Н	5,253	937.1	893.4	43.8	4.9%	178
<i>.</i> ∮Birmingham§	· H ·	1,115	652.7	645.0	7.7	1.2	585
Balance of Sand Mountain	H ·	4,138	284.5	248.4	36.1	14.5	69
Southern Piedmont	H;P	17,778	2,012.5	1,778.9	233.6	13.1%	113
Hilly (Upper) Piedmont	Ϋ́Ĥ	. 11,441	862.5	766.9	95.6	12.5	75
Central Piedmont	P	6,337	1,150.0	1,012.1	137.9	13.6	181
Lake Erie Lowland	Р	407*	272.7	262.7	10.0	3.8%	670
Ohio Till Plains**	P .	2,608	257.8		22.6	9.6%	99
Kentucky Bluegrass .	P	2,122	139.9	128.9	11.0	8.5%	66 🖺 .
Nashville Basin •	` P	646	21.5	20.6	0.9	4.3%	³³
Southern Coastal Plain	Р	15,537	694.3	644.1	, 50.2	7.8%	45
Alabama-Mississippi Black-		,					•
land Prairies	Ρ .	1,563	66.1	61.9	4.2	6.8%	. 42 .

Source: Based on land resource regions of the United States with data from computer file defined to county units and adapted to Appalachian Region by ARC staff, U.S. Department of Agriculture, Land Resource Regions and Major Land Resource Areas of the United States, Agriculture Handbook 296, (Washington, D.C.: U.S. Government Printing Office, 1965).

*M--mountains and high piateaus. H--hills and low plateaus. P--plains and lowlands.

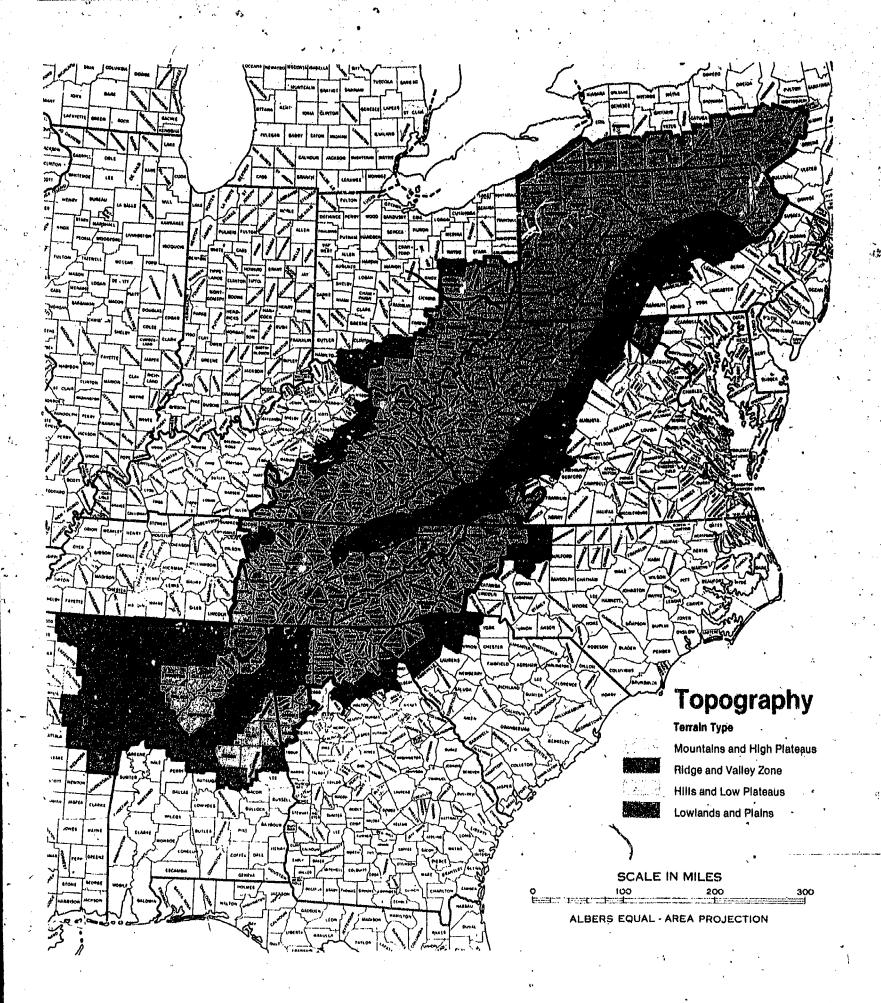
†U.S. Bureau of Census provisional population estimates for July 1, 1976.

‡U.S. Bureau of Census population statistics, including revised totals after 1970 final totals.

*High density area consists of Jefferson County, Alabama.

*Consists of narrow lowland strip parts of Erie County, Pennsylvania and Chautauqua County, New York. Population split estimated for 1976 by the Appalachian Regional Commission.

**Composed of small portions in Ohio of three larger land resource till areas.





Population





Population Change in the Appalachian Region

he Appalachian population is estimated to have increased by 1.1 million from 1970 to 1977, a much larger growth than for the two decades (1950-1970) which experienced a gain of only 839,000. From 1970 to mid-1976 the Region gained 597,000 persons from natural increase (61 percent of growth) and 380,000 from net inmigration (39 percent / of growth). See Tables 3 and 4 on pages 14 and 15 and map on page 16. With 9 percent of the U.S. population, the Region had only 7 percent of the nation's natural increase; a higher rate of net inmigration brought the regional population growth rate almost up to the national level.

Southern Appalachia contributed the lion's share of regional growth, with 62 percent of total population gain and the largest amount of inmigration: Central Appalachia, with the most rapid rate of growth and of inmigration, accounted for 20 percent of the regional population increase. Northern Appalachia had the smallest net gain of only 18 percent of Appalachia's total despite its having over one-half the Region's population. Only one-fifth of Appalachia's 397 counties had net outmigration in the 1970-76 period, and one-half of these counties were in Northern Anvalachia.

The 1980 census is just over one year away. The Region continues to advance toward a 1980 projected population between 19.7 and 19.8 million, which would amount to an increase of over 8 percent for the decade of the 1970s or three times its growth rate for the 1960s (2.7 per-

cent). The nation, meanwhile, is projected to have a population growth rate only about two-thirds as high in the 1970s as in the 1960s (9 percent vs. 13.4 percent) See Tables 13 and 14 on pages 34 and 35.

Appalachian Pennsylvania continued to have outmigration in the 1970–76 period. If heavy outmigration from the Pittsburgh metropolitan area (120,400) is excluded, the balance of the Appalachian state part had a net inmigration of 51,300 and Northern Appalachia had a net total of 91,200 inmigrants. All other Appalachian state parts have had net inmigration in the 1970s with the largest numbers in Georgia, Tennessee and Kentucky.

Northern Appalachia has experienced slow population growth despite net outmigration and is approaching a population of 10 million. Southern Appalachia has grown more rapidly than the national average since 1970 with a 1978 population of about seven and one-half million. Central Appalachia reached a peak population at the 1950 Census (2,173,000), then lost population steadily until 1970. It is not likely to recover its previous high in the present decade, though it has already surpassed its 1960 population, despite the lower rate of natural increase.

Natural increase in the 1970–76 period contrasts with the 1960–66 period a decade earlier. In the later period Appalachian births were only 79 percent of the previous number; deaths, 106 percent with natural increase in the later period only 52 percent of the 1960–66 level (597,000 vs. 1,143,000). But estimated migration in the later period added 380,000, while the earlier period had a net loss of 765,000. Thus the reversal of net migration has accelerated the Region's population increase in spite of the lower natural increase.

Population Trends in Appalachian Local Development Districts

Almost two-thirds of the Appalachian local development districts (LDDs) had population increases at rates faster than the national average (5.6 percent) in the 1970-76 period, and their gain of 832,000 in population was 85 percent of the total net regional growth (see Tables 5 and 6 on pages 18 and 20 and map on page 17). Only 6 of these 44 districts were in Northern Appalachia, in Central Appalachia 11 districts were in this growth group with an average growth rate of nearly 12 percent. Southern Appalachia accounted for 27 of the 44 districts with above-average or faster growth, but these had seven-tenths of the population total for the entire gloup.

Districts with below average and, slow growth rates were concentrated in Northern Appalachia, which had three-fourths of the total number, with 85 percent of the regional population for this group. Only three districts with below average and slow growth rates were located in Central Appalachia and two in the southern subregion.

Population declines occurred in only four and one-half districts, but only one of these, Southwestern Pennsylvania, had a significant population loss in numbers (71,400). Overall, as the map on page 17 reveals, the principal zone of rapid growth within the Region extended from central eastern Kentucky southward to Atlanta; if the entire zone of above-average growth rates is considered, it extends from eastern West Virginia and southwestern Ohio (Ohio Valley LDD) southward to include nearly all of Central and Southern Appalachia.



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Table 3

Population and Estimated Components of Change Appalachian Region and United States

*	, '		Population		1970-1976 Estimated Components of Population Change						
Geographical Division	(1	July 1, 1977* thousands)	July 1, 1976† (thgusands) s	April 1, 1970± (thousands)	Total Changes (thousands)	Births (thousands)	Deaths (thousands)	Net Migration (thousands)	Total Change (percent)		
United States	s	216,332	214,859	203,305	11,354	20,610	12,113	+2,857	+ 5.6%		
Appalachian Region		19,327.3	19,194.4	18,217.1	977.3	1,793.5	1,196.6	+ 380.4	+ 5.4%		
Subregions Northern			° .	•				•			
Appalachia Maryland		9,907.0 215.1	9,911.3 217.4	- 9,734.0 209.3	177.3 8.1	873.0 18.1	666.5 13.7	- 29.2 + 3.7	+ 1.8% + 3.9		
New York Ohio	•	1,081.7	1,089.8 1,190.2	1,056.6 1,129.9	33.2 60.4	95.9 116.4	66.5 78.5	+ 3.9 + 22.4	+ 3.9 + 3.1 + 5.3		
Pennsylvania West Virginia		5,924.6 1,486.7	5,955.5 1,458.3	5,930.5 1,407.7	25.0 50.6	503.0 139.6	409.0 , 98.8	- 69.1 + 9.9	+ 0.4 + 3.6		
Central			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	**************************************		, , ,	[•			
Appalachia Kentucky		1,982.6 996.5	1,939.4 980.4	1,744.9 876.5	- 194.5 103.9	198.5 101.7	119.7 59.3	+ 115.77 + 61.5	+/11.1% +-11.8		
Ten n essee Virginia		380.8	372,4 224,3	334.6 197.3	37.8 26.9	33.8 22.6	22.0 13.4	+ 26.0 + 17.6	+11.3 + +13.7. >		
West Virginia		372.7	-362.4	336.5	25.9	40:4	25.0	+ 10.5	+ 7.7		
Southern Appalachia	•	7,437.8	7,343.7	6,738.2	605.5	722.1	410.4	_+ 293.8	+ 9.0%		
Alabama Georgia	•	2,285.0	2,273.2 973.2	2,137.4 813.8	135.8 159.3	226.2 100.0	131.6 47.8	+ 41.2 + 107.1	. + 6.4 +19.6		
Mississippi North Carolina		455.0 1,130.6	446.5 1,122.3	418.6 1,039.0	278 83.3	50.3 102.2	28.2 62.0	+ 5.8 + 43.1	+ 6.6 + 8.0		
South Carolina Tennessee	٠ ي	729.3 1,549.5	729.0 1,512.4	656.4 1,399.9	72.6 112.5		38.5 84.3	+ 38.4 + 51.6	+11.1 + 8.0		
Virginia		290.8	287.1	273.0	14.1	25.4.	18.0	+ 6.7	+ 5.2		
State Parts= Tennessee	•	1,930.2	1,884.8	1,734.5	150.3	179.0	106.3	+ 77.6	+ 8.7%		
Virginia West Virginia**		1,859.4	511.3 1,820.7	470°3 1,744.2	41.0 76.5	48.1 179.9	31.4 123.8	+ 24.4 + 20.4	+ 8.7		

Source: 1977 estimates compiled by ARC staff from U.S. Bureau of Census county estimates published in *Population Estimates*, Series P-26, September 1978 to January 1979; 1976 estimates with components of change from U.S. Bureau of Census county estimates published in *Population Estimates*, Series P-26 and P-25, January 1978 to January 1978, Individual state reports. Series P-26 and P-25, J

Note: All data totals are independently rounded from unrounded source data; totals may not add due to rounding

^{*}U.S. Bureau of Census provisional state estimates.
†U.S. Bureau of Census provisional population estimates for July 1, 1976.
‡Revised 1970 U.S. Bureau of Census population data.

⁹Change between April 1, 1970, and estimated July 1, 1976, population after post-census late corrections to 1970 population totals. = Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here.

Entire state.

Table 4

-Population Trends and Annual Rates of Change Appalachian Region and United States 1960-1976

		Popu	lation		An	Annual Rate of Change	
Geographical Division	July 1, 1976* (thousands)	April 1, 1970† (thousands)	July 1, 1966 (thousands)	April 1, 1960 (thousands)	1970-76 (percent)	1966-70 (parcent)	1960-86 (percent)
Unided Stres	214,659	203,305	195,531	179,311	0.87%	1.0 %	1.4 %
Appalachian Region	19,194.4	18,217.1	18,105.5	17,726.6	0.84%	0.16% *	0.34%
Subregions)					-,
Northern Appalachia,	9,911.3	9,734.0	9,737.6	9,705.6	0.3%	0.01%	0.05%
Maryland	217.4	* 209.3	209.7	, 195.8	0.6	-0.05	1.1
New York	1,089.8	1,056.6	1,060.1	1,000.1	0.5	-0.1	0.9
Ohio -	1,190.2	1,129.9	1,150.9	1,119.6	0.8	0.5	0.4
Pennsylvania	5,955:5	5,930.5	5,896.8	5,930.8	0.07	0.15	-0.1 &
West Virginia	1,458.3	1,407.7	1,420.0		0.6	0.2	-0.4
Central Appalachia	1,939.4	1,744.9	1,816.6	1,879.1	1.7%	-1.1 %	-0.5 %
Kentucky	980.4	876.5	912.6	922.2	1.8	-1.1	0.2
Tennessee	372.4	334.6	338.2	327.7	1:7	-0.3 / *	0.5
Virginia	224.3	197.3	210.8	, 228.2	2.1	-1.8	-1.3
West-Virginia	362.4	336.5	354.9	401.0	1.2	c –1.4	-1.9
Southern Appalachia	7.343.7	6,738.2	6,551.3	6,141.8	1.4%	0.75%	1.0 %
Alabama	2,273.2	2,137.4	2,132.0	1,982.3	1.0	0.07	1.2
Georgia	973.2	813.8	746.1	675.0	2.9	2.3	1.6
Mississippi Missi	446.5	418.6	415,6	406.2	1.0	1.9	0.4
North Carolina	1,122.3	1,039.0	1,013.2	939.7	1.2	0.7	1.2
South Carolina	729.0	656.4	610.2	586.5	1.7	2.0	·· 0.6
Tennessee "			1,358.2	1,280.0	1.2	0.8	0.95
Virginia	287.1	273.0	276.0	272.1	0.8	-0.3	0.2
State Parts‡	••	5	سپر ن			· ·	
Tennessee	1,884.8	1,734.5	₹,696.4	1,607.1	1.3%	0.6%	0.9 %
Virginia	511.9	470.3	486.8	500.3	1.3	-0.9	-0.4
West Virginia ⁶	1,820.7	1,744.2	1,774.9	1,860.4	0.7	-0.5	-0.75

Source: Compiled by ARC from U.S. Bureau of the Census, 1976 county population estimates, 1970 Census of Population (revised data) and 1960 Census of Population. 1966 population estimates based on census county population estimates for July 1, 1966, revised and adjusted by ARC to new state total estimates developed by U.S. Bureau of the Census (data published in Series P-25, no. 460, Table 1) in 1971.

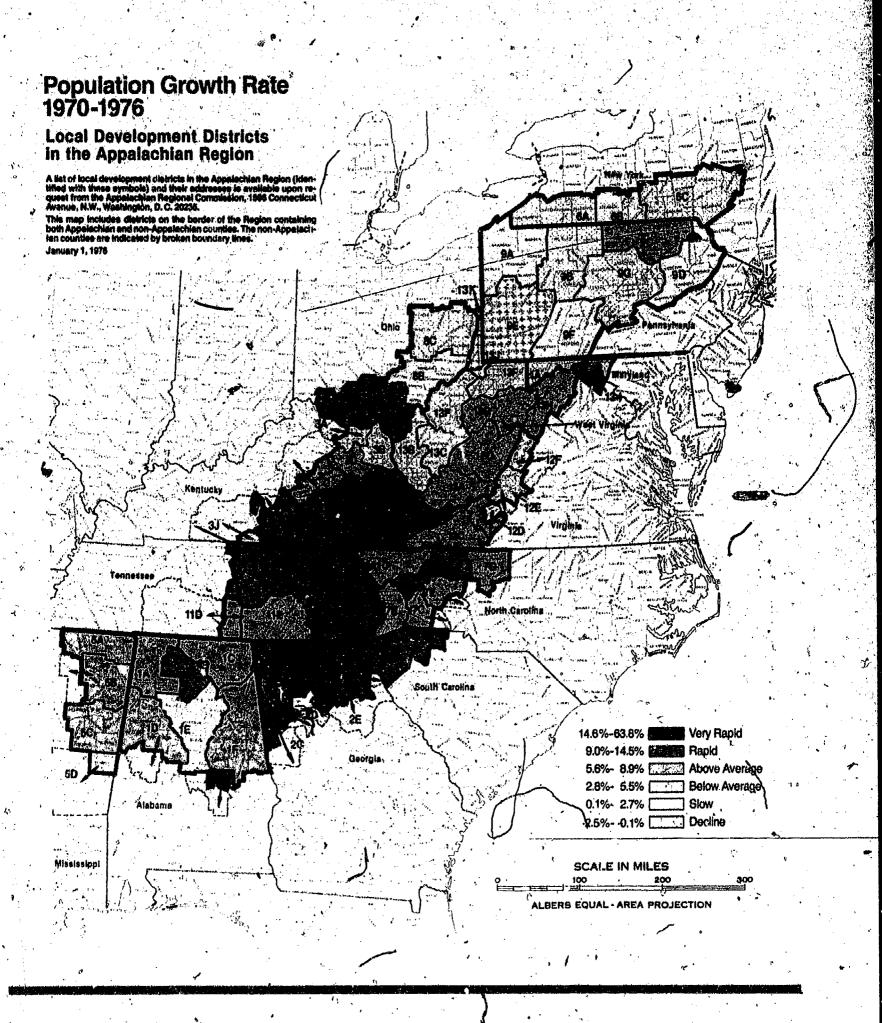
Note: All data totals are independently rounded from unrounded source data; totals may not add due to rounding



^{*}U.S. Bureau of Census provisional population estimates for July 1, 1976. †Revised 1970 U.S. Bureau of Census population data.

Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here. SEntire state.

Components of Population Change, 1970-1975 Net In-migration Predominates: More than twice natural growth or accompanying natural decrease Net in-migration Predominates: 1.25 to 2.0 times natural growth Balanced: Net In-migration and Natural Growth Natural Growth Predominates: More than 1.25 times net migration Net Out-migration with a greater rate of Natural Growth Population Loss: Net Out-migration removed more than natural growth or Natural Decrease not compensated by net In-migration. indicates a county with natural decrease of population SCALE IN MILES ALBERS EQUAL - AREA PROJECTION



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Population and Estimated Components of Change Appalachian Region and Local Development Districts April 1970–July 1976

		Population		1978—76 Estimated Components of Population Change						
LDD Code	State and Local Development District	July 1, 1976* (thousands)	April 1, 1970† (thousands)	Total Change‡ (thousands)		Deaths (thousands)	Nat Migration (thousands)	Change (percent)	Net Migration (percent)	
	Appalachian Region	19,194.4	18,217.1	977.3	1,793.5	1,196.6	380.4	5.4%	2.1%	
10	Alabama:	400.0	400.4		100			9.401	4.40	
1A 1B .	NW Alabama North Central Alabama	196.8 172.3	182.1 157.0	14.7 15.2	18.7 17.2	11.6 8.9	* 7.5 6.9	8.1% 9.7	4.1% 4.4	
1C	Top of Alabama	384.2	363.6	20.6	38.3	18.3	0.5	5. 7	0.2	
1D	West Alabama §	\ 192.6	180.8	11.9	19:5	10.9	9 3.3	6.6	1.8	
1E	Birmingham Regional	863.7	819.3	44.4	83. <u>5</u>	53.2	14.2	5.4	1.7	
1F	East Alabama	\\\ 423.7	400.9 33.7	22.7	44. 7.	26.3	4.4)5.7 18.5	1.1 12.9	
1H	Central Alabamas	√ 39.9	33.7	6.2	4.2	2.3		10.5	12.0	
2A	Georgia: Coosa Valley	334.6	302.7	> 31.9	34.9	. 18.8	15.7 /	10.5%	5.2%	
2B	Georgia Mountains	202.5	176.8	25.7	19.5	10.3	16.6	14.5	9.4	
2C	Chattahoochee-Flint [§]	60.0	50.8	9.2	6.5	3.2	5.9	18.1	11.6	
2D , 2E	Atlanta Regionals.	165.5	101.0	64.5	16.8	4.9	52.6 ·	63.8	52.1	
, ZE	NE Georgias	58.7	51.5	7.3	5.9	3.3 7.2	4.6 - 11.6	14.1 15.9	9.0 8.9	
2F	North Georgia	151.9	131.1	20.8	16.4		- 11.0	10.9	0.5	
3A	Kentucky: Buffalo Traces	24.8	23.7	1.1	2.5	1.7	0.3	4.6%	1.3%	
3B	FIVCO	128.8	122.1	6.8	12,7	7.8	1.9	5.5	1.6	
3C	Bluegrass [§]	123.2	113.4	9.8	12.0	7.0	4.7	8.7	4.2	
*, 3D	Gateway	59.4	55.7	3.8	. 6.2	3.6	1.1	6.8	2.0.	
3E		159.3	134.3	25.0	17.4"	8.7	16.2	18.6	12,1	
3F	Lake Cumberland [§] Cumberland Valley	139.7 209.7	√123.9 184.5	15.8 25.1	12.8 22.8	9.1 13.5	12.2 15.8	12.8 13.6	9.8 , 8.6	
31	Kentucky River	123.5,	104.3	16.2	14.1	7.0	9.2	315,1	8.5 °	
34	Barron Rivers	11.9	11.6	0.2	1.1	0.9	, Ŏ <u>;</u> Ō	2.0	0.4	
	Maryland:	••			•		·	•	,	
4A	Tri-County	217.4	209.3	8.1	18.1	13.7	3.7	3.9%	1.8%	
\$.	Mississippi:			•		• •	· W			
5A	NE Mississippi	, 118.4	109.6	8.8	12.5	7.7	3.9	8.0%	3.6%	
5B ^	Three Riverss Golden Triangle	160.4 157,6	150.3 148.5	10.1 9.2	17.9 18.6	10.6 9.2	. 2.7 - 9.2	6.7 6.2	* 1.8	
5D	East Central Mississippis	10.1	10.2	- 0.2	1.2	0.7	- 0.6	1:6	- 6.1	
	New York:	, , , ,	, ,,,,			.6				
6A	Southern Tier West	284.4	275.4	. 9.0	26.2	18.8	1.6 1	3.3%	0.6%	
6B	Southern Tier Central	218.8	217.8	0.9	20.2	744 e 14.1	_ 5.1	0.4	- 2.4	
6C .	Southern Tier East	586.6	563.3	23.3	49.5	33.7	· 7.4- 6-5	ś' 4:1	" 1.3	
74	North Garolina:	400 É	116.0	10 E	10 n	7.2 .	6 0	0.00/	5.8%	
7A 78	SW North Carolina Land-of-Sky	126.5 238.9	116.0 223.6	10.5 15.3	10:9 20.3	14.9	6.8 9.9	9.0% 6.9	4.4	
70	Isothermal§	96.8	89.7	7.1	9.4	5.8	3.6	7.9	4.0	
70	Region D	154.1	139. 4-	~14:7	13:6	8:3	9:3	10:5	6.7	
7E	Western Piedmont ⁶	147.1	136.5	10.5	15.0.	7.0	2.5	567.7	1.8	
7G	NW North Carolina 🤞	359,0	-333.8	25.2	3340	18.7	10.9	7.6	3.3	
	Ohio:	A07 4	6 1446 M		- No. c	00.0	on e	0.00/		
A8	Ohio Valley Buckeye Hills-Hocking Va	487.1 Nev 222.9	445.9 219.0	41.2 3.9	78.6 21.2	29.9 14.7	22.6 - 2.5	9.2% 1.8	5.1% - 1.2	
4 8B 38	Ohio Mid-Eastern	480.2	464.9		46.6	33.8	2.4	3.3	0.5	
	Pennsylvania		1	· Victorian Control	A					
9A	NW Pennsylvaniá	752.3	733.Ô	19,3	70.1 _C	48.1	- 2.7	2.6%	- 0.4%	
•			•		*4			E#4		

		Popul	ation	1970-76 Estimated Components of Population Change						
LDD Code	State and Local Development District	July 1, 1976* (thousands)	April 1, 1970† (thousands)	Total Change [‡] (thousands)	Births (thousands)	Death (thousands)	Net Migration (thousands)	Change (percent)	Not Migration (percent)	
9B	North Central S	237.9	231.5	6.4	·/ 22.7	17.0	0.7	2.8	0.3	
90	Northern Tier	170.7 896.2	157.0 873.9°	13.6 - 22.2	16.7 20. 69.0	10.5 * 72.1	7.4 25.4	8.7 2.5	4.7 2.9	
9D.	NE Pennsylvania SW Pennsylvania	2,803.7	2,875.1	- 71.4	226.1	189.7	-107.8	_ 2.5	-3.8	
9F 9G	Southerh A leghénies SEDA-COG	497.3 597.5	490.4 569.6	6.8 27.9	45.5 52.9	35.0 36.6	- 3.6 11.6	1.4 4.9	-0.7 2.0	
10A	South Carolina: SCACOG	729.0	656.4	72:6,	72.7	38.5	38.4	.11.1%	5.9%	
11A.°	Tennessee: Upper Cumberland	216.9	193.7/	23.2 •	19.1	13.3	17.4	12.0%	9.0%	
11B	East Tennessee	⁷ 67.6	701:Ó	66.6	69.9 36.8	42.1 · 20.9	38.8 9.0	9.5 6.9	5.5 2.5	
11C 11D	First Tennessee-Virginia South Central Tennessee	ქ84.4 § 63.9	359.4 59.9	24.9 4.0	50.pc	3.7	1.7	6.7	2.9	
11E	SE Tennessee	452.1	420.5	31.6	47.3	26.4	10.7	7.5	2.5	
. •	Virginia:							4 = 001	40.44	
12A	LENOWISCO	98.1	84.8 112.5	13.2 13.7	9.3 13.4	6.3 7.0	/ ,40.3 7.4	15.6% 12.2	12:1% 6.5	
12B 12C	Cumberland Plateau Mount Rogers	126.2 168.8	159.4	9.4	14.7	10.3	5.1	5.9	3.2	
12D	New River Valley§	59.4	56.1	3.3	5.9	3.8	^{∉ -} 1,2	5,9	2.2	
12E	Fifth Districts	51,2	49.7		4.4	3.3	0.3	2.9	0.7	
12F	Central Shenandoah [§]	7.7	7.7	. — 0.0	0.6.	0.6	0.₽	- 0.5	0.8 _p	
13A~		257.9	238.5	19.3	27.8	17.9	9.4	8.1% 3.0	3.9% -1.1	
13B*** 13C	Region 2 B-C-K-P (Region 3)	274.8 293,5	266.8 · 291.6	8.0 1.9	29.5 28.9	18.5 18.8	- 3.0 - 8.2	3.0 0.6	-1.1 -2.8	
13D	Gauley	132.4	122.7	9.7	12.8	10.1	7.0	7.9	5.7	
13E	Mid-Ohio Valley	166.5	160.4	6.1	15.7	10.6	1.0	3.8	0.6 2.6	
13F 13G	Region 6.	256,2 · ″ 111,3	2 43.8 103.5	12.4 7.9	23.9 10.0	- 17:8 , 8.0	6.3 5.8	. 5.1° 7.6	2.6 5.6	
13H	Region 7 Region 8	64.3	59.3	5.0	≠ 6.1	4.2	3.2	8.5	5.3	
131	Eastern Panhandle	73.9	66.2	7.7	6.9	`* 4.8 ,	5 ;6	11:7	8.5 1	
13J	Bel-O-Mar	119.8	121.4	- 1.6	11.7	9.1	- 4.2	 1.3	-3.5 -3.5	
13K.	B-H-J (Region 11)	70.2	70.2	0.0	6.5	4.0	- 2.5		-3.3	

Source: 1976 provisional population estimates with components of change compiled and tabulated by ARC staff from U.S. Bureau of Census county estimates published in *Population Estimates*, Series P-26 and P-25, July 1977 to January 1978, individual state reports.

Note: All data totals are independently rounded from unrounded source data; totals may not add due to rounding.

*U.S. Bureau of Census provisional population estimates for July 1, 1976.

†Revised 1970 U.S. Bureau of Census population data.

‡Change between April 1, 1970, and estimated July 1, 1976, population after post-census late corrections to 1970 population totals.

\$Data are only for that portion of the local development district in the Appalachian Region.

"Includes Perry County, Pennsylvania."

Table 6

Summary of Local Development District Population Trends Appalachian Region 1970-1976

		Popu			
Subregion or Item	Rapid/Very Rapid	Above Average	Below Avarage	Slow	Decline
Appalachian Region (with 69 LDDs)	- 21	23	. 12	81/2	41/2
Northern Appalachia (231/2 LDDs)	2	4	. 8	71/2	2
. Central Appalachia (14½ LDDs)	71/2	31/2	2	1 • • •	1/2
Southern Appalachia (31 LDDs)	11%	. 151/2	2 ` }	0	.2
Percent of Districts (in the Appalachian Region)	301/2% .	33½%	17½%	121/2%	6 %
1970 Population (in thousands)	4,070	4,316	3,733	3,076	3,021
Percent of Population (in the Appalachian Region)	221/2%	23½%	201/2%	17 %	ion
1970-76 Population Change (in thousands)	526	a 305	162	√57 ′	-73
Percent of Population Change (in the Appalachian Region)	54 %	31 %	161/2%	6 %	-71/2%
1970-76 Average Growth Rate	12.9%	7.1%	4.3%	1.8%	- 2.4%

Source: Tabulations of data presented in Table 5.

Note: Three local development districts are split by subregional boundaries. Each part is counted as one-half.

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23.

Population Concentration and Dispersal in the Appalachian Region

In 1976 population density in the Appalachian Region was 99 per square mile. This was higher than the overall U.S. average (72 per square mile, excluding Alaska and Hawaii) but little more than one-half the density (181 per square mile) of the non-Appalachian United States east of the Mississippi River. Density within the Region varies widely from over 2,000 in Allegheny County, Pennsylvania, to 6 in Highland County, Virginia.

One-fifth of the Region's population lives in the single great concentration surrounding Pittsburgh and extending into northern West Virginia and eastern Ohio—the 21 counties in the high-density region covered 5.7 percent of regional land area and had an average 1976 population density of 352 per square mile. This area has lost an estimated 68,000 population since 1970. Elsewhere in Appalachia, population has generally increased (see map on page 16). No other concentration has more than 6 percent of the Region's population.

At the state-part level, in addition to Appalachian Pennsylvania, only South Carolina, Maryland and southern Appalachian Tennessee, had 1976 densities averaging over 100 per square mile or higher than the regional average.

Dispersed population is population not clustered in communities of 1,000 or more inhabitants. In the Appalachian Region 45 percent of the total 1970 population was dispersed in small communities or scattered, contrasting with only about 20 per-

cert of the total population in surrounding areas of the eastern United States. The northern subregion has the least dispersal (38 percent), followed by the southern (49 percent) and central (71 percent) subregions. Within state areas the dispersed population varied from 31 percent of the total in Appalachian Pennsylvania to 77 percent in central Appalachian Virginia (see Table 7 on page 22).

Population Growth Trends by County Groups in the Appalachian Region

In 1976 one-half of the Appalachian population lived in metropolitan counties (42 percent in major metropolitan and 8 percent in peripheral metropolitan), one-quarter lived in urban counties and one-quarter in rural counties. This compares with U.S. proportions of 73 percent metropolitan and 27 percent nonmetropolitan. Thus, Appalachian population in nonmetropolitan counties is almost twice the U.S. proportion.

Since 1970 nonmetropolitan areas have grown much more rapidly than metropolitan areas both in the Region (7.65 percent vs. 3.1 percent) and in the nation (7.8 percent vs. 4.8 percent). Natural change for the Region's metropolitan areas in the 1970-76 period was quite low (2.9) percent) compared with the U.S. rate . (4.4 percent). This was primarily due to the extremely low rate of natural population, growth in Northern Appalachia (1.7 percent), which contained 58 percent of the Region's metropolitan population in 1970 and 56 percent in 1976. Natural growth in nonmetropolitan counties in Appalachia (3.6 percent) was less than

that in the United States (3.8 percent). Net migration rates for the six-year period in the Region were lower than for the nation (0.2 percent vs. 0.5 percent) for metropolitan counties but the same (4.0 percent) for nonmetropolitan counties. But, because of the Region's greater mix of the latter, the total net migration rate (2.1 percent) for the Region exceeded the national rate (1.4 percent).

The subregions differ sharply in growth strends and components. Northern Appalachian rates are well below the regional average in every group, reflecting an overall sluggish growth performance. In Central Appalachia the metropolitan counties resemble their northern counterparts, while urban counties and rural counties increased at rates faster than in Southern Appalachia. Southern Appalachian growth rates were consistently above national averages. Major metropolitan counties had a low rate of net inmigration in contrast to a phenomienal rate of inmigration to peripheral metropolitan counties; which resulted in an overall southern metropolitan inmigration of 4.1 percent. See the map on page 23 and Table 8 on page 24.

The Metropolitan-Urban-Rural System of County Classification

With the continuing spread of population settlement into "rural" areas surrounding large metropolitan and urban centers, and even smaller urban centers, the usual separation of urban and rural population has become less useful. Large numbers of "urban noncity" people are living in "rural" areas purely for residential purposes. One result of this diffused city development is that the county has become more significant as a



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Table 7 **Population Concentration** Appalachian Region and United States
1970–1976

•	Geographical Division	Land Area 1970 (square miles)	Population July 1, 1976* (thousands)	Density 1976† (per square mile)	Population April 1, 1970* (thousands)	Clustered Population ⁹ 1970 (thousands)	Clustered Population 1970 (percent)	Dispersed Population 1970 (percent)	٠.
	United States	2,963,998	213,391	72.0	203,304	7	.78. %	22. %	•
	(48 states and Washington, D.C.)								
	Appalachian Region	194,871	19,194,4	98.5 [†]	18,217.1	10,031.0	55.1%	44.9%	30
	Subregions	ж.		The same of		•			
	Northern Appalachia	83,581	9,911.3	. 118.6 [†]	9,734.0	6,057.6	62.2%	37.8%	•
	Maryland	1,546	217.4.	140.6	209.3	110.6	52.8	47.2	•
	New York	- 11,806	1,089.8	, ' 92.3	1,056.6	600.9	56.9	43.1	٠
	Ohio	13,732	1,190.2	86.7	1,129.9	530.8	47.0	53.0	
	Pennsylvania	36,626	5,955.5	162.7†	. 5,930.5	4,094.6	^ 69.0 ·	31.0	
•	West Virginia	. 19,871	1,458.3	73.4	1,407.7	720.7	51.2	48.8	
•	Central Appalachia	31,906	1,939.4	60.8	1;744:9	507.2	29.1%	70.8%	
	Kentucky	16,942	980.4	57.9	876.5	240.8	27.5	72.5	
	Tennessee (7,528	372.4	49.5	334.6.	113.3.	33.9	66.1	
	Virginla . '	`3,237	224.3	69:3	197.3	45.7	23.1	76.9	**
ļ	West Virginia	4,199	362.4	86.3	336.5	107.4	31,9	68.1	٠.
i,	Southern Appalachia	79,384	7,343.7	92.5	6,738.2	3,466.2	51.4%	48.6%	٠
	Alabama	. 24,600	2,273.2	92.4	2,137.4	1,351.6	63.2	36.8	
	\ Georgia	· - 10,804 ′	973.2	90.1	813.8	280.5	34.5	65.5	•
1.	Mississippi	10,313	446.5	43.3	418.6	157.6	37.6	62.4	,
*	\ North Carolina.	11,884 🔻	1,122.3	94.4	1,039.0	405. 9	39.1. **	- 60.9	į
	🖟 🖯 South Carolina	3,912	729.0 ·	186.4	656.4	400.0	60.9 - 1	39,1	
•	1 Tennessee	11,710	1,512.4	129.2	1,399.9	779.9	55.7	44.3	
	'Virginia 🛼 '	6,161	287.1	46.6	273.0	90.8	33.3	66.7	
•	· State Parts =		•	· · · · · · · · · · · · · · · · · · ·	***	. •		•	
•	Tennessee	19,238	1,884.8	98.0	1.734.5	893.2	51.5%	∴ 48.5%	
•	Virginia	9,398	511.3	54.4	470.3	136.5~	£9.0 .	71.0	
_	West Virginia**	24,070	1,820.7	75.6	- 1,744.2	828.1	47.5	52.5	
	Non-Appalachian,			V .		, , , , ,	, , , , , , , , , , , , , , , , , , ,		
	States East of				* * * *		mercan 13	•	
•	Mississippi River	658,451	118,894	180.6	114,596.1	-	79.5%	10 M.	
		•	Y _	<i>*</i>				17.44°	

Source: 1970 Census of Population, published and unpublished data, tabulated by ARC staff.

Note: The Clustered Population percentages for the United States and the Non-Appalachian States East of Mississippi River were estimated

^{*}U.S. Bureau of Census provisional population est mates for July 1, 1976.

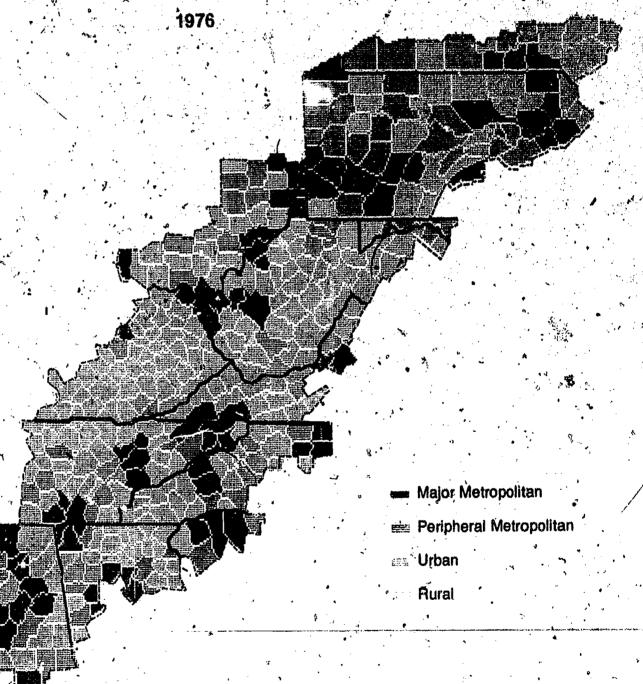
† 1976 density adjusted for new Raytown Reservoir in Pennsylvania (11 square miles), but all data otherwise pertain to 1970 land areas.

‡ Revised U.S. Bureau of Census population data.

SClustered population: population living in communities of 1,000 or more inhabitants. 1970 data is most recent available.

Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here.

Metropolitan, Urban and Rural Counties Appalachian Region



Source: Map produced by composite mapping system developed by the U.S. Department of Commerce, Economic Development Administration and furnished to the Appalachian Regional Commission.



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Table 8

Population Trend and Estimated Components of Change Appalachian Region, Subregions and County Group (metro, urban, rural) April 1970-July 1976

	Popula	ation	1970-76 Estimated Components of Population Change								
Geographical Division	July 1, 1976* (thousands)	April 1,	Total Change‡ (thousands)	Natural Change (thousands)	Net Migration (thousands)	Total Change (percent)	Natural Cuange (percent)	Net Migration (percent)			
Appalachian Region	19,194.4	18,217.1	977.3	597.0	。380.3	5.4%	3.3%	2.1%			
Metropolitan Counties	9,506.5	9,217.8	288.7	269.4	. 19.3	3.1	2.9	0.2			
Major Metropolitan	7,995.6	7,920.9	74.7	203.7.	- 129.0	0.9	2.6	- 1.6			
Peripheral Metropolitan	1,510.9	1,296.9	214.1	65.7	148.4	16.5	5.1	11.4			
Urban Counties	4,845.5	4,580.2	265.4	156.4,	109.0	5.8	3.4	2 4			
Rural Counties	4,842.3	4,419:1	423. <i>2</i>	171.1	252.1	9.6	3.9	5.7			
Subregions			3	,	,	•					
Northern Appalachia	9,911:3	9,734.0	177.3	206.5	- 29.2	1.8%	2.1%	- 0.3%			
Metropolitan Counties	5,316.5	5,353.7	- 37.2	93.5	-130.7	- 0.7	1.7	- 2.4			
Major Metropolitan	4,900.9	4,974.7	– 73.7	79.g.	_a – 153:6	- 1.5	1.6	- 3.1			
Peripheral Metropolitan	415. 6	379.0	36.5	▶13.7	22.9	9.6	3.6	6:0			
* Urban Counties	2,862.0	2,770.3	91.8	65.4	26.4	3.3	2.4	1.0			
Rural Counties	1,732.8	1,610.1.	122.7 °	47.6	75.1	7.6	3.0	4.7			
Central Appelachia	. 1,939.4	1,744.9	194.5	78.8	115.7	11.1%	4.5%	` 6.6%			
Metropolitan Counties	, 201.1	194.3	6.7	7.4	0.8	3.5	3.8	- 0.4			
Major Metropolitan	115.1	112.7	2.4	4.0	- 1.7	2.1	3.6	- 1.5			
Peripheral Metropolitan	86.0	81.7	4.4	3.4 °	1.0	5.3	4.2	1.2			
" Urban Counties	344.6	309.4	35.2	.1 12.4	22.8	11.4	4.0	7.4			
Rural Counties	1,393.7	1,241.1	152:6	59.0	93.6	12.3	4.8	7.5			
Southern Appalachia	7,343.7	6,738.2	605.5	311.7	293.8	9.0%	4.6%	4.4%			
Metropolitan Counties	3,989.0	3,669.8	040.0	<i>₹</i> 168,5	150.7	8.7	4:6	4.1			
Major Metropolitan	⁶ 2,979.6	2,833.6	146.0	119.8	26.2	5.2	4.2	0.9			
Peripheral Metropolitan	1,009.4	836.2	173.2	48.7 -	124.5	20.7	5.8	14.9			
Urban Counties	1,638.9	1,500.5	138.4	78.7	" 59.7	9.2	. 5.2	4.0			
Rural Counties	1,715.8	1,567.9	147.9	64.5	83.4	9.4	4.1	5.3			
r. I	•	.,		55	55. 1	w	•••	0.0			

Source: Compiled by ARC from U.S. Bureau of Census "Estimates of the Population of (name of state), Counties and Metropolitan Areas: July 1, 1975, Revised and 1976 Provisional (also contains corrected 1970 census data), Current Population Reports, Series P-26 and Series P-26. Washington, 1977–78. 13 reports for Appalachian states. Unpublished data tabulations processed by ARC data systems staff.

Note: All data totals are independently rounded from unrounded source data; totals may not add due to rounding,

^{*}U.S. Bureau of Census provisional population estimates for July 1, 1976.

[†]Revised 1970 U.S. Bureau of Census population data. ‡Change between April 1, 1970, and estimated July 1, 1976, population after post-census late corrections to 1970 population totals.

statistical unit. The typical county in the eastern half of the United States has a land area of 400 to 600 square miles (about 20 to 25 miles square). With widespread automobile ownership this may constitute a "commuting" community or a geographic market area. Thus whole counties may be classified according to their population settlement character, using population density, size of the urban places or areas and proportion of population classified as urban (i.e., in urban places or fringes at densities of 1,000 per square mile or more).

Three categories have been distinguished in the system used for our

regional study:

- (1) Metropolitan County. Centered around an urban area of at least 50,000 population and with a tetal county population of at least 75,000, this group includes not only the central county but adjoining commuting counties meeting certain criteria established by the U.S. Office of Management and Budget (OMB).
- (a) Major Metropolitan. In addition to meeting OMB criteria for a metropolitan county, a major metropolitan county must have (1) population density (1970) of 100 per square mile or higher, (2) at least 50 percent of its total population classified as urban, or (3) total urban population is 25,000 or more and largest urban place, cluster or urbanized area fringe has 15,000 or more population. The county must meet two of these three criteria.
- (b) Peripheral Metropolitan. All other metropolitan counties with lesser densities or urbanization which would qualify otherwise as either urban or rural counties.
- (2) Urban County. Any county (other than metropolitan) which meets two of these three criteria:
- (a) Population density is at least 70 per square mile.

- (b) Urban population is at least one-third of county total.
- (c) County urban population is at least 15,000 **OR** largest urban place or urban cluster (group of contiguous places) has 10,000 or more population. (under (c) for places split by county lines, at least one-half must be in the county)
- 3. Rural County. Any county not meeting criteria for either metropolitan or urban classification; in general, counties with small towns or no urban places at all.

Population Ethnicity in the Appalachian Region

The percentage of white population in the Appalachian Region in 1970 was 93 percent compared to 88 percent in the United States. Blacks composed 7 percent of the Region's population (11 percent nationally), while Americar Indians and other races (chiefly Asiatic) numbered only 0.2 percent of the Region's people (see Table 9 on page 26). There is great diversity within the Region, however. Black population varied from 29 percent of the total in Appalachtan Mississippi to. 1 percent in Appalachian New York. Asiatic population was widely scattered, but 35 percent of the Region's American Indians were found in four counties: three in North Carolina (Swain, Jackson and Graham) with 3.174 Indians: and Cattaraugus County, New York, with 1,318 Indians. Two rural counties in the Region, Kemper, Mississippi, and Bledsoe, Tennessee, had over 1 percent Indian population in 1970; the remaining Indians were widely scattered. Black population in Northern Appalachia was concentrated in the metropolitan and urban counties,

while in parts of Central and Southern Appalachia significant, black population was found in rural counties.

Population of foreign birth in the Region numbered 1.521.000 in 1970. or 8.35 percent of the regional population; the U.S. proportion was 16.5 percent. This population was concentrated in Northern Appalachia. National origin data show that Italy was the leading source (20 percent), followed by Poland (12.5 percent), Germany (10.5 percent), the United Kingdom (10 percent), Czechoslovakia and Austria (each just under 8 percent). Western Hemisphere immigrants, including Mexicans, were very small in number compared with some other sections of the nation, as were persons of Asian and African origin.

Elderly Population, 65 years and older, in the Appalachian Region

The Appalachian Region has had a higher proportion of elderly population than the nation since 1960. The gap widened in the 1960s, while since 1970 the Region has remained consistently higher, increasing at about the same rate as the nation.

Proportion of Elderly to Total Population

1960 1970 1976

United States 9.2% 9.8% 10.7% Appalachian Pagion 3.4% 10.5% 10.4%

Appalachian elderly population numbered 2.2 million persons in 1976, increasing by one-seventh above the 1970 number (1.9 million).



Table 9

Population by Major Racial Group Appalachian Region and United States 1970

		1970 Population",										
Geographical Division	Total (thousands)	White (thousands)	Black (thousands)	American Indian (thousands)	Other Races† (thousands)	, White (percent)	Black (percent)					
United States "(48 states and	203,211,926	177,748,975	22,580,289	792,730	2,089,932	87.5%	11.1%					
Washington, D.C.)		and the second			•							
Appalachian Region	18,212,232	16,889,364	1,284,405	12,760	25,703	92.7%	7.1%					
Subregions												
Northern Appalachia —	9,733,113	9,417,145	293,544	5,230	17,194	96.8%	3.0%					
Maryland	209,349	204,515	4,460	80	294	97.7	2.1					
New York	1,056,367	1,039,033	11,889	["] 2,102	3,343	98.4	1.1					
Ohio	1,129,350	1,102,055	25,270	561	1,464	97.6	2.2					
Pennsylvania	5,930,303	-5,706,975	211,497		9,958	96.2	3.6					
West Virginia	1,407,744	1,364,567	40,428	614	2,135	96.9	2.9					
`-Central Appalachia	1,744,900	1,687,469	54,928	700	1,803	98.7%	3.1%					
` Kentucky	875,922	856,040	18,777	352	747	97.7	2.1					
Tennessee	335,343	328,552	6,216		416	98.0	1.9					
Virginia	197,142	193,958	3,021	52	. 111	98.4	1.5					
West Virginia	336,493	308,913	26,914	137	529	91.8	8.0					
	· c 704 040	E 704 7E0	025 029	6,830	6,708 .	. 85.9%	13.9%					
Southern Appalachia Alabama	6,734,219 2,137,278	5,784,750 1,700,657	935,933 433,327	040	2016	79.6	20.3					
Georgia	813,596	747,480	65,222		579	91.9	9.0					
Mississippi	418,644	295,704	122,103	432	405 ⁻	70.6	29.2					
North Carolina	1,037,212	937,239	96,135	3,935	903	90.4	9.2					
South Carolina	656,219	543,247	112,043	280 5	649	82.8	17.1					
Tennessee	1,398,318	1,299,223	95,613		1,645	92.9	6.9					
Virginia	272,952	261,200	11,490		179	95.7	4.2					
· · · · · · · · · · · · · · · · · · ·		1	,			****	· ·					
State Parts ‡			•			v•	, •					
Tennessee	1,733,661	1,627,775	102,829	996	2,061	93.9	5.9					
Virginia	470,094	455,158	14,511	135	290	96.8	3.1					
West Virginia ^ş	1,744,237	1,673,480	67,342	· · 751	2,664	95.9	3.9					
- · · · · · · · · · · · · · · · · · · ·	· · · · ·											

Source: 1970 Census of Population, first count computer file data, corrected and edited by ARC staff from PC(1)-B series of state reports, Table 34 for each of 13 Appalachlan states.

^{*}Census totals are uncorrected final count date published in 1970 Census of Population, -B volumes. Data (in thousands) adjusted to official census total (203,235): white (178,098); black (22,581); other (2,556) including American Indians and other races.
†Other races consists chiefly of persons of Asiatic origin.
‡Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here.

Entire state.

With 8.95 percent of the national population, the Appalachian Region accounted for 8.6 percent of the increase in total population but 9.3 percent of the national increase in elderly population during the 1970–76 period. See Table 10 on page 28.

Northern * Appalachia *remains well above national and regional averages in the share of elderly population and continues to parallel the aging trends of the Region and nation since 1970. Central Appalachia has experienced very little increase in proportion of its elderly population since 1970, and in Appalachian Kentucky the ratio has actually dropped slightly! This is probably due to a relatively large inmigration of younger population. Southern Appalachia stiil has the lowest proportion of older population in the Region but it has increased much more rapidly than elsewhere in the Region, and if present trends are followed, it will approximate the national average by 1980.

This more rapid increase may be partly due to the attraction of older retirees, which appears to be a factor in certain Southern Appalachlan areas and in the Lake Cumberland area of Kentucky. Both migration and aging can affect the proportion of elderly population in any given area. Outmigration of younger people will increase this proportion, as well as the inmigration of older persons. In addition the fall in birth rate has reduced the numbers of the youngest age groups, while the historic increase in longevity in the U.S. and in Appalachia has tended to increase the proportion of older persons. The most recent projections of elderly population 65 years and older for the United States are: 1980, 11.3 percent; 1985, 11.8 percent; 1990, 12.3 percent; and 2000, 12.3 percent. These data are based on Series II estimates in Population Estimates

and Projections (Series P₁25, No. 704), "Projections of the Population of the United States: 1977 to 2050," published by the Bureau of the Census in July 1977.

The map of elderly population by local development district (see map on page 29) reveals a large area of Northern Appalachia extending from Western New York and eastern Ohio to central West Virginia with a concentration of older population. In addi-Northeastern Pennsylvania which has experienced decades of outmigration from anthracite mining areas has a high relative concentration. In Central and Southern Appalachia, the elderly are concentrated in selected districts in five of the eight states. Low proportions of older population are found in Appalachian Georgia (the lowest average level), South Carolina, two Central Appalachian coalfield districts and two other Southern Appalachian districts.

At the county level of detail, the Region appears even more diversified. Counties with above average levels of elderly population tend to be rural plateau or mountain counties, rural southern counties or urban and metropolitan counties which have experienced decades of relative economic stagnation and outmigration. Some of them are retirement counties which have attracted older inmigrants. At the opposite extreme are the counties, with few older people, which include counties with large proportions of college population, suburban inmigration or counties with recent economic growth and inmigration. A few of these "more youthful" areas have relatively high fertility rates as a factor.

Appalachian Migration—A Dramatic Shift in Flows

Between 1965 and 1970 about 1,250,000 interregional migrants moved into the Appalachian Region and 1,650,000 departed, leaving a net migration loss of 400,000 persons. During this period the Region's population increased from 18,065,000 to 18,217,000, a gain of only 0.8 percent.

In the 1970-75 period the Appalachian Region experienced a net migration inflow of 300,000, with an estimated 1.7 million regional inmigrants, and outmigration of 1.4 million. In contrast to the preceding period, inmigration increased by about 40 percent in volume, while outmigration dropped by approximately one-eighth. The Region as a whole grew by 4.5 percent in population, surpassing 19 million in 1975.

Central Appalachia had by far the greatest shift in net migration rates, while Northern Appalachia retained a small net outmigration and Southern Appalachia shifted to net immigration. However, net migration in all three subregions shifted in a positive direction. See Table 11 on page 30 and map on page 31.

Table 12 on page 32 provides detailed data for gross migration flows in the 1965-70 period between Appalachia and the non-Appalachian United States, subdivided into six regional origin and destination areas. There was net outmigration to all of these regions from Appalachia, with the largest outflow to the North Central region and the smallest to the South Central. White migrarits made up 95 percent of all inmigrants to the Region but only 92 percent of the outmigrants, Blacks and other races



Table 10

Elderly Population 65 Years of Age and Older Appalachian Region and United States 1970–1976

	Popul	ation July 1, 19	76*	Population Ap	ril 1, 1970†				
Geographical Division	Total (thousands)	Elderly (thousands)	Elderly as Percent	Elderly (thousands)	Elderly as Percent of Total	Populati Total (percent)	on Change Ci Elderly (percent)	Elderly (thousands)	
United States	214,659	22,934.4	10:7%	19,978.6	9.8%	5.6%	14.8%	2,955.8	
Appalachian Region	19,194.4	2,181.8	11,4%	1,906.8	10.5%	5.4%	14,4	274.9	
Subregions	0.044.0	. 4 4ne n	40 40	4 000 2	44 00	4 000	40.90	444 8	
Northern Appalachia	9,911.3	1,196.8	12.1%	1,085.3	11.2% 10.8	1.8% 3.9	10.3%	111.5	
Maryland	217.4	26.2	12.0	22.7		3.1	9.0	3.5	
New York	·, 1,089.8	126.1	11.6	115.7 127.6	10.9 11.3	5.1 5.3	7.6	10.4 9.7	
Uillu	1,190.2	137.3	11.5	660:5	11.1		10.7	70.5	
Pennsylvania	5,955.5	731.0	12.3		·· 11.3	0.4 3.6		17.4	
West Virgipia	1,458.3	176.3	12.1	150.9	11.9	0.0	11.0	17. 4	
Central Appalachia	1,939.4	210.5	10.9%	186.8	10.7%	11.1%	12.7%	23.7	
" " Kentucky	980.4	106.3	10.8	96.5	11.0	11.8	10.1	9.8	
Tennessee	372.4	44.1	.11.8	36.4	10.9	11.3	°21.2	7.7	
Virginia	224.3	22.1	9.9	19.1	9.7	13.7	15.7.	3.0	
• West Virginia	362,4	38.1	10.5	34.8	° 10.4	7.7	9.2	3.2	
Southern Appalachia	7,343.7	774.4	10.5%	634:7	9.4%	9.0%	22.0%	139.7	
Alabama	2,273.2	243.5	10.7	202.8	9.5	6.4	20,1	40.8	
Georgia	973.2	87.9	9.0	70.0	8.6	19.6	25.5	17.9	
Mississippi	446.5	53.1	11.9	45.7	10.9	6.6 .	16.2	7.4	
North Carolina	1,122.3	126.7	11.3	102.4	9.9	8.0	23.7	24.3	
South Carolina	729.0	68.1	9.3	52.7	8.0	, 11.1	29.2	15.4	
Tennessee	1,512.4	159.9	, 10 ' ,6	131.3	9.4	8.0	21.8	28.6	
Virginia	287.1	35.1	12.2	29.7	10.9	5.2	া 18.3 ্র	<i>.</i> 5.4	
State Parts*			٠,		•				
, Tennessee "	1,884.8	204.0	10.8% ਼	167.7	9.7%	8.7%	21.6%	36.3	
Virginia	511.3	57.2	11.2	48.8	10.4	8.7	17.3	8.4	
West Virginia=	1,820.7	214.4	11.8	193.7	11.1 "	4.4	10.7	20.6	

Source: Estimates for 1976 and revised data for 1970 are U.S. Bureau of Census data provided and published by the Administration on Aging, U.S. Department of Health, Education and Welfare, Washington, D.C. 20201.

Note: All data totals are independently rounded from unrounded source data; totals may not add due to rounding.

^{*}U.S. Bureau of Census provisional population estimates for July 1, 1976.

[†]Revised 1970 U.Ş. Bureau of Census population data.
†Change between April 1, 1970, and estimated July 1, 1976, population after post-census late corrections to 1970 population totals.
‡Eigures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here.

Entire state.

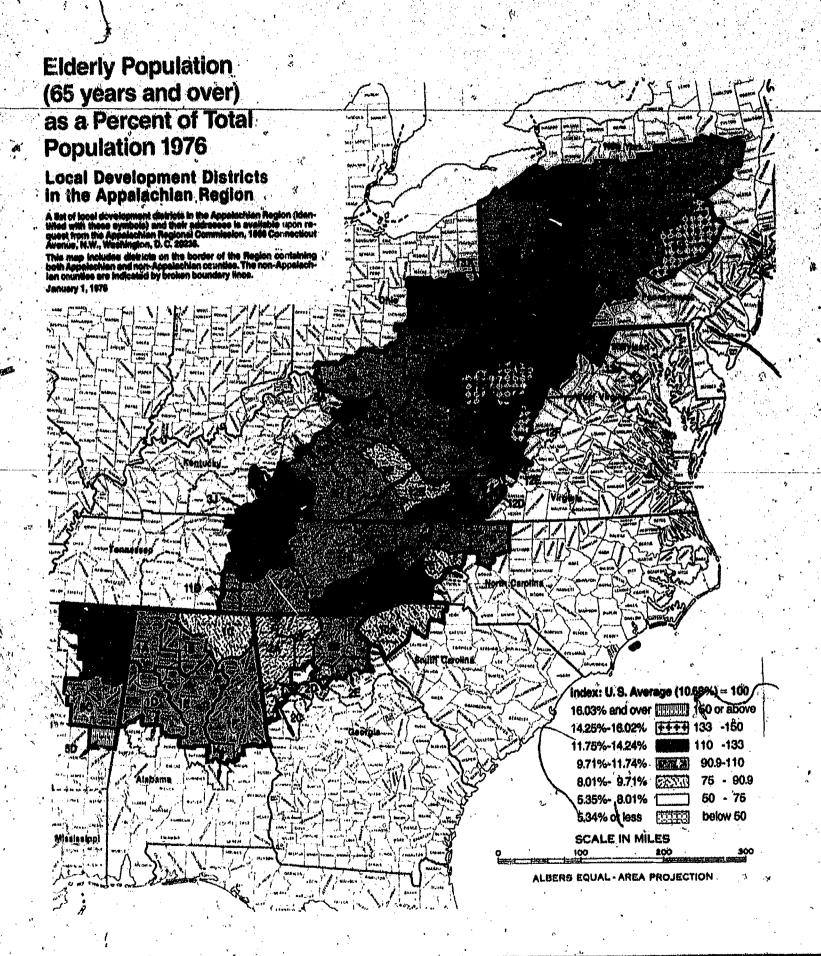




Table 11

Estimated Domestic Interregional Migration Population Aged 5 Years and Over in Later Year.

Appalachian Subregions
1965–1970 and 1970–1975

1965-1970 Period (April 1) Census, adjusted for underreporting Data in Thousands

	•	Northern Appalachia Migration				"Cei	itral Appalachia	Migration	Southern Appalachia Migration			
Geographical Region	• •	To	From	Net Migration	•	To	From	Net Migration	To	From	Net Migration	
Northern Áppalachia	•		بالمها	•	(4.5) *	17	13	4	A	100	3.4	
Central Appalachia		13	17	4				Amelia	/ 11	20	Q,	
Southern Appalachia	439	10 ²	. 8	3	81	20	11	- 9	(
Northeast		332	275	– 57		14	11	_ 4	55	52	_ 3	
North Central		2361	161	- 75		86	47	39	70	68	_ 2	
Southeast		59	31	- 28		20	8	12	214	198	-16	
South Central		16	10	– 6		41	24	17	/ 90	94	5	
Florida		- 68	20	- 48	.*	10	* 4	- 5	52	45	~ ~ ž	
Western United States		136	82	54		17	10	= 7	102	86	-16	
United States Total	•	870	604	-266		226	129	-96	6027	574	-28	
, n			••••		•••		•				X	

1970-1975 Period (April 1) Estimated

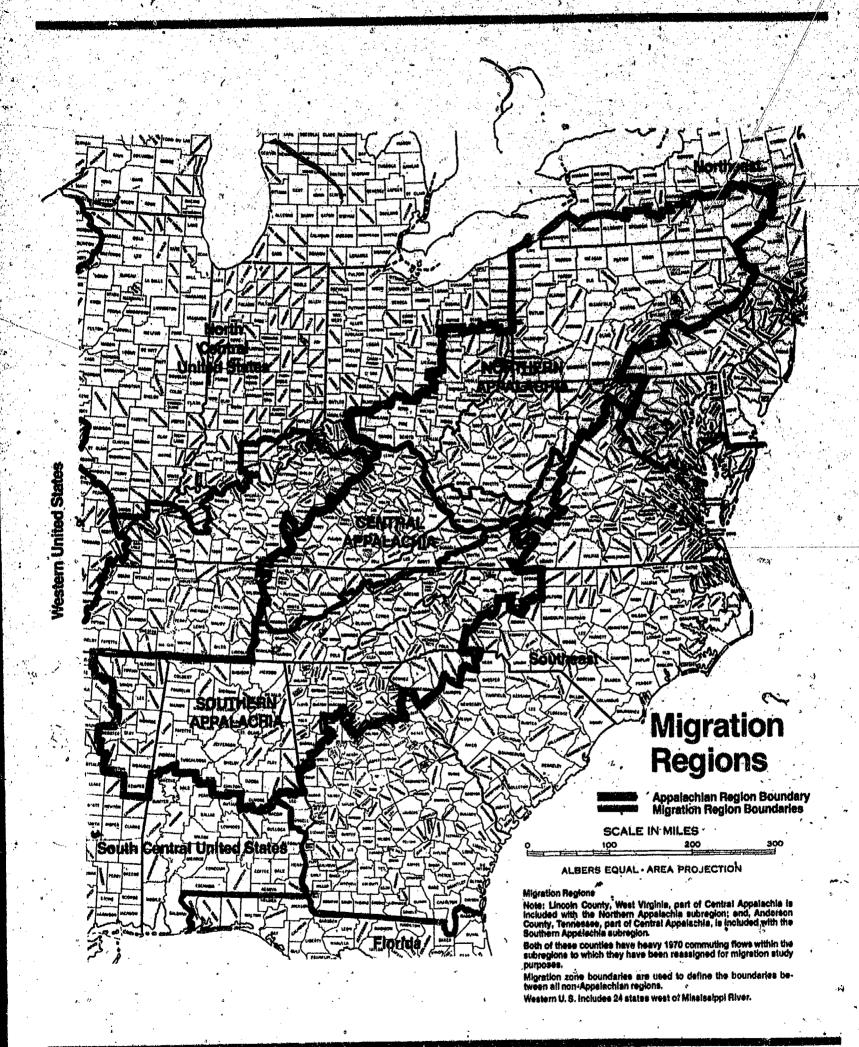
Data in Thousands

	Northern Appalachia Migration				Central	Appalachia	Migration	Southern Appalachia Migration			
Geographical Region \	To "	From	Net Migration	. •	To	From	Net Migration	τ		From	Net Migration
Northern Appalachia	-	•			17	12	- 5	خير	7.	-8	. 4
Central Appalachia	12	17 -	5			Wearner		`-2	0 -	14	 6 -
Southern Appalachia	. 8	7	_ 1	٥	14 ⁵	20	6	,	- `.	*******	Maryle
Northeast	245	293	48 🔨		5	18	. 13	1 3	5	3 62	27
North Central\	175	205	30	2,0	28	83	55	•	3	80	27
Southeast (*)	79	33	- 46		17.	24	.7	20		287	86
South Central	16	13	 3		30	40	10-	10	-	113	10
Florida	84	38	- 46		7 4	8	1 *		9	57	8
Weştern United States ~	169	84	– 85		16	15	1·	10	4	126	22
United States Total	788	690	- 98	υ	134	220	86	57		747	. 175

Source: 1965–1970: special tabulation of migration data from U.S. Bureau of Census, adjusted by ARC staff for nonreporting of 1965 residence. 1970–1975: based on linkage of data for first period to continuous work history sample data and expansion to estimate total migrants in 1970–75 period.

Note: Lincoln County, West Virginia included with Northern Appalachia and An Ierson County, Tennessee included with Southern Appalachia because of commuting linkages. This reduces the number of counties in Central Appalachia for migration study purposes to 83.

Net return of Armed Forces to civilian status in the Region is estimated at about 100,000 for the period 1970–1975. These are not included in the data. If added to the net U.S. total, the aggregate net migration estimated for 1970–1975 would be as follows: Northern Appalachia –38,000; Central Appalachia 96,000; and Southern Appalachia 208,000.



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Table 12

Appalachian Interregional Migration 1965–1970

Appalachian Subregions

					uhhaianiii	all onnightning	Southern Appalachia		
Region of Source and Destination for Appalachian Migrants	Appalach	ian Region	Northern'	Appalachia	Central	Appalachia			
	Total (thousands)	Black and Other Races (percent)	Total (thousands)	Black and Other Races (percent)	dotal (thousands)	Black and Other Races (percent)	Total (thousands)	Black and Other Races (percent)	
Total 1970 Population (5' years old and over)	16,731	7.1%	8,986	3.1%	1,525	3.2%	6,220	13.7%	
Nonmigrants (Zonal)	14,857	7.4%	8,061	3.1%	1,367	3.4%	5,429	14.7%	
Migrants within Region*	565	2.9%	272	2 %	25	1 %•	188	51/2%	
Interregional Migrants United States Total Non-Appalachia	<i>.</i>		a		Ng.			**	
Inmigrants Outmigrants	1,228 1,618	4.8% 8.1	580 >847	3½% 4	104 -188	2 % 4½	544 583	7 % ' . 15	
Net Migration Northeast Region Inmigrants	- 390. 337	18.3 .** 5 % *	−267 • 275	5 3½%	84 · 10	7½ 6 %	- 39 52	132 [†]	
Outmigrants Net Migration	- 401 - 64	8 24	-332 - 57	7 '/	- 14 - 4	13 33	- 55 - 3	28 313 [†]	
North Central Region Inmigrants	276	3 %	161	21/2%	47	1 %	68	61/2%	
Outmigrants Net Migration	- 392 - 116	10 27	-23,6 - 75.	4 ½ 8½	~ - 86 - 39	4 7	- 70°	37 1,100†	
Southeast Region Inmigrants	238	6 %	31 ,	8 %	8	4 %-	198	6 %.	
Outmigrants Net Migration	- 2 93 - 55	7 9	- 59 * - 28	3 (+)2	- 20 - 12	5½ 7	214 16	7½ 29	
South Central Region Inmigrants Outmigrants Net Migration	128 - 146 - 18	9 % 10 13	10 16 6	9 % 5 (+)2½	24 41 17	3 % 4½ · 7	, 94 - 89" + 5	11 % 13 ()28 [†]	
Florida Inmigrants Outmigrants Net Migration	70 130 60	2 % 2 1	20 68 , 48	2 % · ½ · (+)0	5 10 5	½‰. 1 1	45 - 52 - 7	2½%. 4 11	
Western United States Inmigrants Outmigrants	178 - 255	4 % 9½	82 136	3 % 42	10 - 17	2 % 2½	86 102	5 % 17	
Net Migration	– 77	• 23	- 54	6	- 7	31/2	- 16	85	

Source: Special tabulations of 1970 census of population source data on 1965-70 migration prepared by U.S. Bureau of Census for ARC and summarized and adjusted for nonreporting of 1965 residence by ARC staff,

^{*}The Region total includes migrants between subregions within the Appalachian Region. The subregional totals include migrants between zones in a subregion but excludes migrants between subregions.

t Inmigration denotes flow in to designated Appalachian Region or subregion from designated non-Appalachian region. Outmigration denotes outmigration from designated Appalachian Region or subregion to designeted non-Appalachian region. Where Black and other races shares exceed, 100 percent of total net outmigration, White inmigration (net) is indicated as follows: Non-Appalachian United States net to Southern Appalachia, 13,000; Northeast net to Southern Appalachia, 7,000; Northeast net to Southern Appalachia, 6,000. 6,000.

⁽⁺⁾ There were small net balances of Blacks and other races into Northern Appalachia for Southeast, South Central and Florida of under 1,000 persons. -) There was a small net balance of Blacks and other races out of Southern Appalachia.

constituted only 5 percent of all inmigrants to Appalachia but 8 percent of Appalachian outmigrants. Consequently, 18 percent of net outmigrants from the Region were members of minority races, 71,500 persons out of a net outflow of 390,000 during the five-year period, though minority population was only 7 percent of the total.

In the 1960-65 period estimated net outmigration from Appalachia was 0.7 million persons for a net outmigration rate of 4.0 percent. This dropped to a net outmigration rate of 2.2 percent in the 1965-70 period and shifted to a net inmigration rate of 1.6 percent in the 1970-75 period. Thus, the shift toward positive migration accelerated from a net shift of 1.8 percentage points between the first and second half of the 1960s to a net shift of 3.8 percentage points between 1965-70 and 1970-75.

By far the most spectacular turnaround was in Central Appalachia, where the net outmigration rate fell from 12 percent in 1960-65 to 5.6 percent in 1965-70 and turned around to a net inmigration rate of 5.3 percent in 1970-75. This amounted to a rate of turnaround more than triple the regional average. Central Appalachia changed from the subregion with the greatest rate of net outmigration to the highest rate of net inmigration within a few years.

Long-Term Population Trends with Projected Change in the Appalachian Region, 1940-1990

The perspective of population change in the Appalachian Region reveals that over a half-century period, total regional population has increased and is projected to continue growing in each decade. However, in the period 1940-70 Appalachian growth was much slower than national population growth so that the Region's share of the nation's population dropped from 12.6 percent in 1940 to 9.0 percent in 1970? Massive outmigration from the Region occurred in these decades, with a net outflow of. 3.3 million persons just in the two decades 1950-70, of which twothirds left in the 1950-60 period. Since 1970 and in projection to 1990. regional population growth lags only slightly behind the national average. If this trend is followed in projection, the Region will contain about 8.8 percent of U.S. population in 1990. Only Northern Appalachia continues to experience outmigration, with the result that it is projected to have only about one-sixth of the Region's total population increase in the 1975-90 period, while Central Appalachia will receive about one-fourth and Southern Appalachia about 60 percent of the projected regional population increase.

Tables 13 through 16 on the following pages contain both growth trends and projections for the Region, subregions, state parts and local development districts by two methods: (a) ratio-trend projections based on weighted formulas using past trends of population ratios and projecting

these; and (b) demographic-trend. projections, which are applied only to the recent periods 1966-70 and 1970-75 and use trends in components of population change (births, deaths, net migration) to provide a five-year projection for 1975-80. Both trend series are tied to a national population projection model approximately the same as the current U.S. Bureau of Census Series II projection.

The map on page 40 is based on demographic analysis and reveals that of the 69 local development district areas for the period 1966-80, 38 LDDs or the majority reflect the regienal trends with net outmigration in the 1966-70 period, followed by a reversal to not inmigration in 1970-75 and projected for 1975-80. These areas are concentrated in the middle portion of Appalachia, including all except one of the Central Appalachian LDDs, as well as bordering districts to the north and south? In addition there is an area in central and western Alabama and northeastern Mississippi which shows this pattern, along with one district in south-central New York.

Fourteen local development districts had an estimated net inmigration for all three periods, including the projection to 1980. The largest group, on the southeastern margin of the Region in Southern Appalachia, had exceptional rates of population increase, with 5 districts (or their Appalachian parts) having growth rates equal to twice the national average or & faster. A second group of LDDs with continuing net inmigration is on the Northeastern borders of the. "Megalopolis" in Pennsylvania and West Virginia and a district in Kentucky (part of the Bluegrass LDD).

Seventeen local development districts continue to have lagging migration patterns. Ten of these have

population outmigration for all three periods, and five of this number are projected to have actual smaller populations in 1980 than in 1966. The largest zone of persistent outmigration is a heavily populated region of Western Pennsylvania along with

bordering areas in the Upper Ohio River Valley and in New York state. These 12 districts had a population of 6.0 million in 1960 and are projected to have 5.9 million in 1980. Thus, they have remained static in population numbers while the Region is pro-

jected to have gained some 2 million residents. The only other areas of persistent outmigration are found in the Deep South of Appalachia, in eastern Alabama and east Mississippi.

Table 13

Population Change and Ratio-Trend Projections Appalachian Region and United States 1940–1990

			Papul	ation*	** : · · · · · · · · · · · · · · · · · ·		Ratio	Trend Projec	tions†
Geographical Division	April 1, 1940 (thousands)	April 1, 1950 (thousands)	April 1, 1960 (thousands)	July 1, 1965 (thousands)	April 1, 1970 (thousands)	July 1, 1975 (thousands)	April 1, 1980 (thousands)	April 1, 1985	April 1, 1990 (thousands)
United States	132,166	151,326	179,311	193,485	203,305	213,032	221,650	-231,700	241,600 °
Appalachian Region	16,624.4	17,378.1	17,726.6	18,063.1	18,217.1	19,042.6	19,780	20,621	21,281
Subregions Northern	•		•			٠. ز د		•	
Appalachia	9,209.7	9,445.2	9,705.6	9,730.9	9,734.0	9,886.9	10,015	10,186	10,268
Maryland '	177.8	189.7	195.8	207.5	209.3	815.6	217	219	222
* New York	820.7	917.5	1,000.1	1,053.6	1,056.6	1,083.2	1,109	1,137	1,158
, Ohio +	1,040.8	1,035.1	1,119.6	1,144.4	1,129.9	1,186.3	1,265	1,345	1,405
Pennsylvania	5,712.9	5,784.7	5,930.8	5,900.3	5,930.5	5,955.9	5,965	6,004	5,997
West Virginia	1,457.4	1,518.3	1,459.4	1,425.1	1,407.7	1,445.8	1,459 -	1,480	1,485
Central		1	•			•			
Appalachia	2,126.9	2,172.7	1,879.1	1,824.5	1,744.9	1,899.5	2,079	2,274	2,415
Kentucky	1,110.4	1,072.7	922.2	913.8	876.5	955.1	1,066	1,182	1,270
Tennessee	332.2	359.2	327.7		334.6	364.6	393-	424	449
Virginia	239.7	253.6	228.2	212.4	197.3	217.2	246	276 "	. 297
West*Wrginia (444.5	487.3	401.0		336.5	353.5	374	393	399
Southern >) ,	· .			•		Y ¥	•	
Appalachia	5,287.7	5,760.2	6,141.8	↑ 6,507.7 :	6,738.2	7,265.2	7,686	8,160	8,599
Alabama	1,700.2	1,860.8	1,982.3	2,115.4	2.137.4	2,240.7	2,349	2,461	2,557
Georgia '	577.7	619.8	675.0	738.0	813.8	956.3		1,177	1,300
Mississippi	457.5	426.1	406.2	415.8	418.6	444.0	463	485	502
North Carolina	817.1 ,	881.6	939.7	1,006.2	1,039.0	1,115.9	1,160	1,212	1,263
South Carolina	459.9	523,3	³ 586.5	605.5	656.4	722.1	766	821 •	~• 873
Ténnessee	1,010.4	1,170.6	1,280.0	· 1,351.2		1,501.1	1,596	3,700 v	1,791
Virginia	264.9	278.1 •	(272.1	275.7	273.0	285.2	294	304	312
State Parts [‡]	1 1	•	.	TG			Car		
Tennessee	1,342.6	1,529.8	1,607.7	1,688.6	1,734.5	1,865.7	1,989	2,124	2,241
Virginia	504.6	531.6	500.3	488.1	470.3	- 502.3	540	580	608
. West Virginia [§]	1,902.0	2,005.6	1,860.4	1,786.0	1,744.2	1,799,3	1,833	1,873	1,884*

^{*}Data for 1940, 1950 and 1960 are from the U.S. Census of Population as of April 1, for the respective years. U.S. total includes Alaska and Hawaii for 1940 and 1950 for comparability. July 1, 1965, estimate is based on county estimates for July 1, 1966, revised and adjusted by ARC to new state total estimates; interpolated between 1966 and 1960 census data, using factors for each state derived from new July 1, 1965 state total estimates published by the U.S. Bureau of Census (Series P-25, no. 460), June 1971. April 1, 1970, census data have been revised by post-census corrections through 1977. July 1, 1975, estimate is based on revised county estimates prepared by U.S. Bureau of Census and published in *Population Estimates*, Series P-26 between July 1977 and January 1978.

§Entire state.

Hatio-trend population projection by ARC staff.

[‡]Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here.

Table 14

Population Change and Demographic-Trend Projections with Estimated and Projected Components of Change Appalachian Region and United States 1970–1975–1980

· 8	\	Population*			75—80 Projectionents of Chi		1970-75 Estimated Components of Change*		
Geographical Division	April 1, 1980 (thousands)	July 1, 1975 (thousands)	April 1, 1970 (thousands)	Births (thousands)	Deaths (thousands)	Net Migration (thousands)	Births (thousands)	Deaths (thousands)	Net Migration (thousands)
United States	221,650	213,032	203,305	16,112	9,371	1,877	17,489	10,189	2,427
Appalachian Region	19,797	19,042.6	18,217.1	1,418	918	254.7	1;525	1,209	309.0
Subregions	·	•		•					
Northern	• • • • • • • • • • • • • • • • • • • •	•							
Appalachia	10,010.1	9,886.9	9,734.0	668.7	. 494.8	- 50.7	743.1	562.9	- 27.2
4 Maryland .	221.0	215.6	209.3	13.6	10.3	2.1	n 15.6		2.3
New York	1,101.5	1,083.2	1,056.6	68.8	48.0	- 2.5	81.7	56.3	1.3
Ohio	1,243.9	1,186.3	1,129.9	95.4	58.2	20.3	. 98.4	66.2	₹ 24.3
Pennsylvania [*]	5,961.9	5,955.9	5,930.5	378.4	302.0	- 70.4	429.4	345.6	- 58.5
West Virginia	1,481.8	1,445.8	1,407.7	112.5	76.3	- 0.3	118.1	83.4	3.4
Central	,	,	•	•	. 13		· ·		
Appalachia	2.027.3	1,890.5	1,744.9	160.0	95.2	72.0	166.6	100.4	[*] 79.3
, Kentucký	1,026.3	955.1	876.5	80.0	48.3	39.4	85.1	49.8	₽ 43.3
Tennessee	392.1	364.6	334.6	26.3	17.5	18.7	28.6	18.5	20.0
<virginia< td=""><td>237.1</td><td></td><td>197.3</td><td>19.1</td><td>10.3</td><td>11.2</td><td>19.1</td><td>, 11.2</td><td>12.0</td></virginia<>	237.1		197.3	19.1	10.3	11.2	19.1	, 11.2	12.0
West Virginia	371.7	•	336.5	34.6	19.2	2.8	33.9	21.0	4.1
Southern!			-	,				: •	-
	7.759.7	7,265.2	6,738.2	589.5	328.4	233.4	615.4	345.2	256.9
Appalachia	2,334.3	2,240.7	2,137.4	.180.1	104.6	18.1	192.2	110.7	21.9
Alabama	2,334.3 14 1,100.1	956.3	813.8	88.8		94.8	84.9	40.1	97.6
Georgia	469.1	444.0		, 41.7	21.8	5.1	42.7	23.8	
Mississippi North Carolina	1,182.7	1,115.9		79.3	49.2	. 36.7	87.3	52.1	a 41.7
·	783.6	722.1	656.4	60.3	31.5	32.7	62.3	32.4	
South Carolina	1,594.0	722.1 1,501.1	1,399.9	119.1	67.3	41.1	124.1	70.9	
Tennessee	295.9		273.0			4.9	21.9,	•	la .
Virginia	290.9.	400.2	410.0	, 20.1	14.6	7.5			. 0.0
Cinto Dorina	••	•		•			· • •		
State Parts Tennessee	1,986.1	1,865.7	1,734.5	145.3	84.8	59.8	152.7	* 89.4	67.9
•	533.0	502.3		39.2	24.5	16.0	₃ ⇔ 40.9	26.4	17.5
Virginia	1,853.5	1,799.3	•	147.1	95.4	2.5	152.0		
West Virginia	1,000.0	. 11100.0	1,177.6	. 1411	VU. 7			1	

Source: 1979-75 data compiled by ARC from U.S. Bureau of Census "estimates of the Population of (name of state), Counties and Metropolitan Areas: July 1, 1975 Revised and 1976 Provisional" (also contains corrected 1970 census data), Current Population Reports, Series P-26 and P-25, Washington, 1977-78, 13 reports for Appalachian states and unpublished data tabulations. Data tabulations by ARC computer systems staff.

Note: All data totals are independently rounded from unrounded source data; totals may not add due to rounding.

Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here.

= Entire state.

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^{*}July 1, 1975, estimate is based on revised county estimates prepared by the U.S. Bureau of Census and published in *Population Estimates*, Series P-26 between July 1977 and January 1978. Data for 1970 are from revised U.S. Bureau of Census data. 1980 projections computed by ARC staff.

[†] Methodology used is demographic-trend population projection computed by ARC staff.

‡ Components of change for 1970–75 have been revised using preliminary 1970–76 estimates prepared by U.S. Bureau of Census and 1975 vital statistics for counties from state sources.

Table 15 Population Change and Ratio-Trend Projections Appalachian Region and Local Development Districts 1950–1990

	ŕ	,	**,		Population*		Ratio-Trend Projections			
LDD Code		State and Local	April 1, 1950 housands)	April 1, 1960 (thousands)	July 1, 1965 (thousands)	April 1, 1970 (thousands)	July 1, 1975 (thousands)	April 1, 1980 (thousands)	April 1, 1985 (thousands)	April 1, 1990 (thousands)
٠٠.	•.	Appalachian Region	17,378.1	17,726.6	18,063		19,042.6	19,780	20,621	21,281
	٠	Alabama:								
. 1A	• .	NW Alabama	165.0	166.8	179.4	182.1	195.7	207	220	231
• 1B		North Central Alabama	129.1	130.5	152.0	157.0	169.1	183	196	209
10	•	Top of Alabama	237.8	280.0	355.7	363.6	380.7	, 409	435	463
1D		West Alabama‡	172.3	175.7	186.7	180.8	190.2	199	208	214.
1E		^ Birmingham Regional	735.6	797.7	802.1	819.3		880	914	937
1F		East Alabama	389.4	401.0	408.4	400.9	413.5	426	440	449
, 1H		Central Alabamal [‡]	31.6	30.5	33.2	33.7	39.8	44	49	54*
		Georgia:			9		Ø.			
2A	•	. Coosa Valley	248.5	267.3	282.8	302.7	332.1	348	369	[*] 390
₂ 2Β		Georgia Mountains	141.5	154.5	164.8	176.8	198.6	214	232	249
20		Chattahoochee-Flint‡	41.1	41.8	₹46.0	50.8	59.0	64	Ž 1	78
2D	•	Atlanta Regional*	44.5	60.3	75.6	101.0	,158.5	204	257	313
2E		NE Georgia‡	44.4	44.2	47.2	51.5	- 58.1	62	≻67	72
2F		North Georgia	99.9 °	107.0	121.7	131.1	150.0	165	182	199
	٠.	Kontucky:								
∴3A		Buffalo Trace‡	25.5		23.9	23.7	24.6	25	26	27 .
3B		FIVCO	118.9		122.3	122.1	127.0	132	137	. 140
* 3C		Bluegrass‡	101.3	99.9	108.7	. 113.4	121.8	131	141	150
30		Gateway	54.6	50.7		55.7	58.7	62	65	67
3E	•	Big Sandy '	184.0	151.0	144.7	134.3	153,0	182	214	238
3F	•	Lake Cumberland [‡]	151.5	129,6	126.6	123.9	136.1	152	168	181
3H	•	Cumberland Valley	257.6	206.2 128.2	197.6	•	203.3	231	260	280
31 3J		Kentucky River , Barren River‡	165.6 13.8	11.8	123.6 11.5	107.2 11.6	118.6	139	159	173
00		Maryland:	, 10,0	11.0	,11.0	11.0	12.0	a12	12	13 •
4A		Tri-County	189.7	195.8	207.5	209.3	215.6	217	219	222
- 7/1	•	Mississippi:	103,7	130,0	201.0	203.0	. 210.0	ا ا ا ا -	219	. 566
5A		NE Mississippi	113.9	104.4	108.6	109.6	117.7	124	130	136 •
58.		Three Rivers±	.151.2	142.6	146.2		160.1	168	177	185
5C		Golden Triangle	145.0	146.8	149.7	148.5	155.8	161	166	170
5D		East Central Mississippi‡	15.9	12.3	11.4	10.2	10.3	11	11, 4	
•		New York:	,	, ' 4		·	10,0	• •	; "	.; ·
6À		Southern Tier West	256.9	269.5	275:8	275.4	282,5	294	. 306	315
68		Southern Tier Central	192.4	211.4	223.6	217.8	219.0	224	228	231
6C	• • •	Southern Tier East	468.2	s 519.1	554.1	563.3	581.7	.591	602	613
•		North Carolina:				•			0	
7A	-	SW North Carolina	114.2	109.1	111.0	116.0	125.4	131	137	144
7B		Land-of-Sky	191.0	199.8	216.6	223.6	237.6	244	251	260
7C		Isothermal [‡]	83.7	83.2	87.6	89.7	96.5	101	108	110
7D	•	Region D	138.4	130.2	137.6		152.7,		175	186
7E		Western Piedmont [‡]	103.4	117.9	132.7	136.5	147.1	, 153	159	166
7G		NW North Carolina	250.8	299.5	320.7	333.8	356.6	369	383	'398
^1		Ohio:	4				ا و المراجعة في الم			
8A		Ohio Valley	377.6	441.4	449.8	445.9	480.9	526	573	610
8B		Buckeye Hills-Hocking Valle	Ĭ.	207.9	222.4	219.0	224.4	236	248	258
8C	·	Ohio Mid-Eastern	455.5	~ 470.3	472.1	464.9	481.0	502	524	538
	\. ·	7								-

		1,	n	Population*	•	Ratio-Trend Projections†			lions†
LDD Code	State and Local Development District	April 1, 1950 (thousands)	April 1, 1967 (thousands)	July 1, 1965 (thousands)	April 1, 1970 (thousands)	July 1, 1 1975 (thousands)	April 1, 1980 - (thousands)	April 1, 1985 (thousands)	April 1. 1990 (thousands)
	Pennsylvania:				. 	Acceptance to the second			e e e e e e e e e e e e e e e e e e e
9A .	NW Pennsylvania	666.7	721,9	728.2	733.0	751.7	771	. 792	805
₩ 9 B	North Central Pennsylvani	ia 250.0	244.2	235.1	231.5	236.7	246	256	261
39C	Northern Tier	142.7	147.7	149.7	157.0	167.2	172	178	184
9D	NE Pennsylvania	978,4	884.4	866.3	873.9	894.3	910	928	936
9E	SW Pennsylvania	2,703.8	2,883.7	2,852.4	2.875.1	2,817.7	2,735	2,676	. 2,611
9F	Southern Alleghanies	522.9	510.5	501.1	490.4	495.9	510	523	528
9G	SEDA-COG\$	520.1	538.3	567.5	569.6	592.5	622	651.	673
de	South Carolina:					•			
10A	SCACOG	523.3	586.5	605.5	656.4	722.1	766	821	873
. ,	" Tennessee:	, B.		A ~		•			
11A	Upper Cumberland	198.4	183.2	193.1	193.7	212.9	227	242	255
11B 🔅	East Tennessee	620.5	654.2	686.5	701.0	756.4	· 8f1	870	.922
11C :	First Tennessee-Virginia	306.3	326.8	348.5	,, 359.4	382.8	405	429	451
11D	South Central Tennessee	48.5	54.1		59.9	62.7	66	69	:72
11E	- SE Tennessee	356.1	389.3	401.7	420.5	450.8	480	· 513	. 541
	Virginia:			•		•	1		
12A	LENOWISCO	120.1	100.2	92.7	84.8	93.8	108	123	134
12B	Cumberland, Plateau	. 133.5	128.0	119.7	112.5	123.3	138		163
12C	Mount Rogers	161.5	160.1	161.2	159.4-	167.5	174	160	185
12D	New River Valley [‡]	58.1	54.9	56.4	56.1	_ 59.1°	61	64	66
125	Fifth District#	48.2	48.5	49.8	49.7	50.6	51	51	52
12F	Central Shenandoah‡	10.4	8.6	8.3	7.7	8.0	. 8r	.8	8,
	West Virginia:		f- 10- 10- 1-			•			
13A	Region 1	340.0	279.5	251.5	238.5	252.0	267	281	287
13B	Region 2	317.5	- 293.2	279.0	266.8	270.0	270		266
13C	B-C-K-P (Region 3)	308.8	317.2	299.1	291.6	294.2	, 290	287	, 281
13D	Gauley	179.8.	145.4	136.5	122.7	129.0	138		151
13E	Mid-Ohio Valley	145.1	153.0	155.4	160.4		166	169	171
13F	Region 6	276.5	246.4	243.9	243.8	253.5	257	262	265
13G	Region 7	129.0	110.8	110.0	103.5	108.8		121	124
13H	Region 8	63.0	59.8	61.3	59.3		68		
131	Eastern Panhandle	. 55.8	60.8	63.4	66.2	73.1	78	84	90
13J	Bel-0-Mar	128.7	125.8	1.	121.4	119.8	114	110	105
13K '	B-H-J (Region 11)	61.3	68.6	66.8	70.2	70.9	^x 69	69	. 68
		194		•				· • • • • • • • • • • • • • • • • • • •	•

*Data for 1950 and 1960 are from the U.S. Census of Population as of April 1, for the respective years. U.S. total includes Alaska and Hawaii for 1950 for comparability. July 1, 1965 estimate is based on county estimates for July 1, 1966, revised and adjusted by ARC to new state total estimates, interpolated between 1966 and 1960 census data, using factors for each state derived from new July 1, 1965, state total estimates published by the U.S. Bureau of Census (Series P-25, no. 460), June 1971. April 1; 1970, census data have been revised by post-census corrections through 1976. July 1, 1975, estimate is based on revised county estimates prepared by U.S. Bureau of Census and published in *Population Estimates*, Series P-26 between July 1977 and January 1978.

1 Methodology used is ratio-trend population projection computed by ARC staff.

2 Data are only for that portion of the local development district in the Appalachian Region.

Table 16

Population Change and Demographic-Trend Projections with Estimated and Projected Components of Change Appalachian Region and Local Development Districts 1970–1975–1980

	,	•	19	/0-19/) — I YKU,			•		
					-80 Projec nents of Ch			–75 Estim ments of C		
LDD . Code	State and Local Development District	Apřil 1, 1990 (thousands)(July 1, 1975 thousands)(April 1, 1970 thousands)(Births thousands)(Deaths . thousands)	Net Migration (thousands)(Births thousands)(Deaths thousands)	Net Migration (thousands)
	Appalachian Region	19,797.0	19,042.6	18,217.1	1,418.1	918.4	254.7	1,525,1	1,008.6	309.0
	Alabama; "	*						,	691 4	
°1A	NW Alabama	208.0	195.7	182.1	15.4	9.6	6.5	16.1	9.7	7.2
18	North Central Alabama	179.8	169.1	157.0	13.5	7.1	4.3	14.6	7.5	5.0
10	Top of Alabama	394.8	380.7	363.6	28.0	14.8		32.6	15.3	- 0.2
1D	West Alabama§	198.8	190.2	180.8	16.4	8.8	1.0	16.6	9.1	2.0
1E	Birmingham Regional	882.2	851.7	1 819.3	67.6	42.1	5.0	70.7	45.0	6.7
1F		424.8	413.5	400.9	35.8	20.3	- 4.2	38.1	22.1	- 3.5
1H	Central Alabamas	46.0	39.8	33.7	3.5	1.9		3.5	2.0	
• • • • • • • • • • • • • • • • • • • •		,, TO.O	. 00.0	. 33.7	. J.J	7. 1.3	7.0	0.0	2.0	4.0
4	Georgia:	• f		,	,					g.
2A	Coosa Valley	359.8	332.1	302.7	29.6	· 15.8	13,9	29.7	15.8	15.4/
2B	Georgia Mountains 🐪 🕒	219.6	198.6	176.8	16.3	8.5	13.2	16.6	8.7	13,9
20.	Chattahoochee-Flint§	67.3	· 59.0	50.8	5.7	2.6	5.2	5.5	2.7	, \$.4
2D,	Atlanta Regional ⁹	219.8	158.5	101.0	17.6	4,2	47.9	. 14.0	4.1	47.5
2E	NE Georgias .	64.7 ~	58.1	51.5	5.3	2.8	4.2	5.1	2.8	// 4.4
2F	North Georgia	168.9	150.0	131.1	14.3	5.9	1C.4	14.0	6.1	
	Kentucky:		• .,		•	9				y ·
3A	Buffalo Traces	25.2	24 6	23.7	1.8	1.4	0.1	2.1	1.4	0.3
38	FIVCO	130.9	127.0	122.1	9.6	6.1	0.4	10.7	6.5	.0.8
3C	Bluegrass§	129.5	121.8	113.4	9.9	5.7	3.5	40.0	rsA.	4.1
3D	Gateway	61.5	58.7	55.7	5.0	2.8	0.6		6 3.9 3.0	0.9
3E	Big Sandy	170.9	153.0	134.3	" 14.2	7.3	11.0	14.4	77.2	11.6
3F	Lake Cumberland [§]	147.3	136.1	123.9	19.2	7.4	8.5	10.8	7.7	9.0
3H	Cumberland Valley	220.4	203.3	184.5	18.3	11.2	10.1	19.2	/ 11.4	10.9
31	Kentucky River	128.3	118.6	107.2			5.0	41.7	5.9	
31	Barren Rivers	120.3			10.4	5.8				5.6
30 .		14.4	12.0	11.6	0.8	0.7	0.1	0.9	0.8	€ 0.2
4.4	Maryland:	•••			1			`		
· 4A	Tri-County	221.0	215.6	209.3	13.6	10.3	2.1	15.6	11.6	2.3
	Mississippi:	Marine .								•
5A	NE Mississippi	125.2	117.7	109.6	10.3	6.1	3.4	10.7	6.5	3.9
5B	Three Rivers [§]	169.7	160.1	150.3	15.1	8.3	2.8	15.2	8.9	3.4
5C	Golden Triangle	163.7	155,.8	148.5	15.4	6.8	J.8	15.8	- 7.8	- 0.6
5D	East Central Mississippis	10.5	10.3	10.2	1.0	0.6	- 0.3	, 1 ['] .0	0.6	- 0.3
•, •	New York:				•		•	•		
6A	Southern Tier West	288.9	282.5	275.4	20.5	13.6	- 0.5	22.3	15.9	0.7
6B .		218.9	.219.0	217.8	14.1	9.7	- 4.5	17.2	12.0	4.0
6C	Southern Tier East	593.6	581.7	563.3	34.2	24.8	2.5	42.2	28.4	4.5
	North Carolina:			*****		,				
· 7A	SW North Carolina	133.9	125.4	116.0	8.4	5.6	5.7	9.3	0.0	e n
78	Land-of-Sky	248.6	237.6	223.6	14.8	12.0			6.0	6.2
7C							8.2	17.3	12.6	9.2
70 7D	Isothermai [§]	, 102.5	96.5	89.7	7.3	4.6	3.3	7.9	4.9	3.7
	Region D	165.0	152.7	139.4	10.8	6.5	8.1	11.7	7.0	8.7
7E	Western Piedmonts	156.5	147.1	136.5	12.2	5.7	2.9	12.9	5.9	3.6
7G	NW North Carolina	376.3	356.6	333.8	26.0]	14.8	8.5	28.3	15.8	10.2
	:									

			Population*				1975–80 Projected Components of Change [†]			1970–75 Estimated Components of Change [‡]		
	LDD Code	State and Local Development District	April 1, 1980 (thousands)	July 1, 1975 (thousands)	April 1, 1970 (thousands)	Births (thousands)(Deaths thousands)	Net Migration (thousands)(Births thousands)(Deaths (thousands)	Net Migration (thousands) ~	
		Ohio:				40.0	00.0	47.4	40.0	05.0	10.0	
	8A	Ohio Valley	516,2	480.9	445.9	40.8	22.8	17.4	40.9	25.2 12.5	. 19.2 0.1	
	8B	Buckeye Hills-Hocking Valley		224.4	219.0	16.9	10.4	- 0.1	18.0	28.5	5.2	
	8C	Ohio Mid-Eastern	496.9	481.0	464.9	37.8	25.0	3.1	39.4	20.0	5.2	
		Pennsylvania:		· == 4 ==	700.0	F 64.7	35.7	- 3.5	59.6	40.6	0.2	
٠,	9A	NW Pennsylvania	767.2	751.7	733.0	54.7	12.8	- 0.6	19.4	14.3	0.1	
	9B	North Central Pennsylvania	240.5	236.7	231.5	17.2 14.0	7.7	4.0	14.2	8.9	4.8	
	9C	Northern Tier	177.4	167.2	157.0	53.5	53.1	18.6	58.8		22.5	
ž., '	9D	NE Pennsylvania	913.4	894.3	873.9 2,875.1	160.5	140.3	89 .6	193.4	160.2	-90.6	
	9E	SW Pennsylvania	2,748.4	2,817.7	490.4	36.6	25.3		38.7	29.7	- 3.6	
	9F	Southern Alleghenies'	501.7	495.9	569.6	41.9	27 1	6.2	45.3	31.0		
	9G	SEDA-CUG=	613.4	592.5	0.600	41.5	J 21.1	0.4	1010	• • • • • • • • • • • • • • • • • • • •		
	10A	South Carolina: SCACOG	783.6	722.1	656.4	60.3	31.5	32.7	62.3	32.4	35.8	
	,	Tennessee:	- ,									
	11A	Upper Cumberland	230.9	212.9	193.7	15.1	·· 10.4	13.3	16.2	° 11.1	14.1	
	11B	East Tennessee	806.9	756.4	701.0		33.9	28.1	59.4	35.4	31.4	
	11C	First Tennessee-Virginia	403.2	382.8	359.4		16.8	. 7.6	31.5	17.5	9.4	
	11D	South Central Tennessee§	64.7	62.7	59.9		2.9	0.5	5.1	3.1	. 0.8	
	11E	SE Tennessee	480.3	450.8			20.8	. 10.2	40.4	22.2	12.2	
		Virginia:		<i>e</i> .	,			•				
	12Å	LENOWISCO	103.2	93.8	84.8	7.7	. 4.7	. 6.2	7.8	5.3		
	12B	Cumberland Plateau	134.0	123.3	112.5	11.3	5.6	4.9	11.3	_{y.} 5.9		
	12C	Mount Rogers 7	174.6	167.5	159.4	11.7	8.1	3.5	12.6	√ 8.7	., 4.2	
	12D	New River Valley §	61.5	59.1	56.1	4.6	3.2	1.0	5.0	3.2		
	12E	Fifth District [§]	51.7	50.6	49.7	3.4	2.4	0.1	3.7	2.8		
	12F	"Central Shenadoah§	8.1	8.0	7.7	0.3	0.5	0.3	0.5	0.6	0.3	
	•	West Virginia:			• •			•				
	13A	Region 1	266.9	252.0			13.6		23.5	15.0		
	13B	Region 2	273.0	270.0			14.8		24.8	15.6		
	13C	B-C-K-P (Region 3)	296.1	294.2	291.6		14.9	- 6.1	24.3	15.8		
	13D	Gauley	134.7	129.0	122.7		7.9		10.7	8:5		
	13E	Mid-Ohio Valley	168.6	164.6			8.0	- 0.7	13.3	8.9		
	13F	Region 6	262.8		243.8		13.7		20.3	15.0		
	13G	Region 7	114.4	108.8	103.5		5.9		8.5	, 6.8 , 0.0	3.7	
ı	13H	Region 8	67.3		59.3		3.4		5.2	3.6		
	131	Eastern Panhandle	79.6		66.2		3.7	4.8	5.9	4.0		
	13J	Bel-O-Mar	118.7				6.6		10.0	/.7		
	13K	B-H-J (Region 11)	71.4	70.9	70.2	5.1	3.0	- 1.6	5.5	3.4	- 1.4	

Source: 1970-75 data compiled by ARC from U.S. Bureau of Census "Estimates of the Population of (name of state), Counties and matropolitan Areas: July 1, 1975 Revised and 1976 Provisional" (also contains corrected 1970 census data), Current Population Reports, Series P-26 and Series P-25, Washington, 1977-78, 13 reports for Appalachian states and unpublished data tabulations. Data tabulations by ARC computer systems staff.

Note: All data totals are independently rounded from unrounded source data; totals may not add due to rounding.

Methodology used is demographic-trend population projection computed by ARC staff.

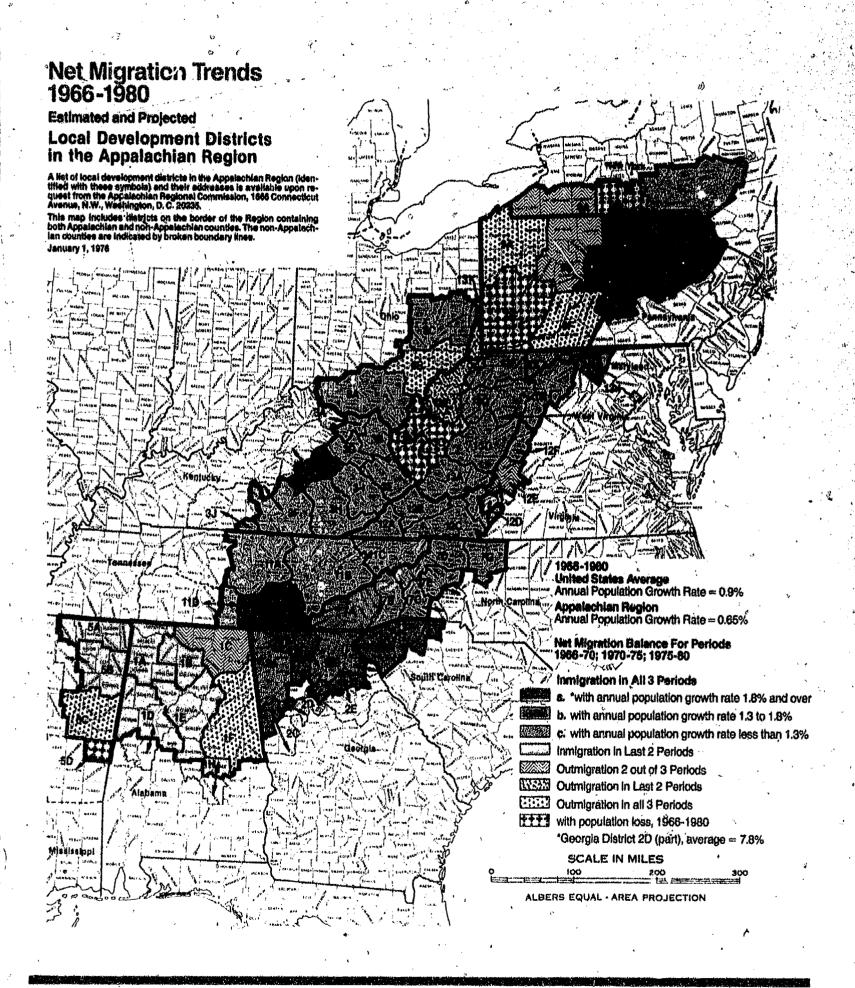
Data are only for that portion of the local development district in the Appalachian Region.

Includes Perry County, Pennsylvania.

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^{*}July 1, 1975, estimate is based on revised county estimates prepared by the U.S. Bureau of Census and published in *Population Estimates*. Series P-26 between July 1977 and January 1978. 1970 data is revised U.S. Bureau of Census population data. 1980 projections computed by ARC staff.

[‡]Components of change for 1970-75 have been revised from preliminary estimates prepared by U.S. Bureau of Census, using 1975 vital statistics for countles from state sources.





Economic Development





Labor Force, Employment and Unemployment Trends in the Appalachian Region

between 1970 and 1977 the Appalachian civilian labor force grew from 7.1 to 8.1 million persons, a rise of 14½ percent, while the labor force in the non-Appalachian parts of the 12 states grew by 13 percent. This was less than the growth rate nationally (18 percent). See Tables 17 and 18 on pages 43 and 44.

Relatively consistent trends in labor force, employment and unemployment in both Region and nation in the years 1970–74 were broken sharply by the recession year 1975. While the labor force continued to grow, employment dropped and unemployment increased sharply.

Between 1975 and 1977 employment increased and unemployment decreased in both the Region and the nation. The drop in Appalachian unemployment from 8.7 to 7.2 percent of the civilian labor force in a two-year period is similar to the national trend, however, the unemployment rate remained slightly higher than the U.S. rate. The three subregions differed sharply in unemployment rates with Northern Appalachia well above the national level, while Central and Southern Appalachia had a lower incidence of unemployment. Improvement in the 1975-77 period was most rapid in Southern Appalachia. The number of unemployed in the Region, estimated at 386,000 in 1970, had increased to 422,000 in 1974 and then sharply increased to 682,000 in 1975 but since dropped to 608,000 in 1976 and 584,000 in 1977.

The highest 1977 unemployment rates within the Region were in Maryland and New York and the lowest in Kentucky and North Carolina. All unemployment rates were higher in 1977 than in 1970, regionally and nationally, with the exception of Central Appalachian Kentucky and Virginia where unemployment rates were lower in 1977.

In the non-Appalachian parts of the Appalachian states, 1977 unemployment rates were similar in the northern and southern states as a whole to those in the Appalachian subregions but lower in the central states (Kentucky, Tennessee and Virginia) in the non-Appalachian portions.

Latior force participation (ratio relative to population) has increased steadily since 1970 (see Figure 1 on page 45). While Central Appalachia has advanced sharply, the growth of labor force in Northern Appalachia has been remarkably slow in both the 1970–72 and 1975–77 periods.

Unemployment in the Appalachian Region Local Development District Areas

1977 unemployment rates within the Appalachian local development districts were lowest in the middle portions of the Region extending from three districts in West Virginia and most of Appalachian Kentucky southward to northern Georgia (see map on page 46 and Table 19 on page 48). The intervening areas in Appalachian Virginia, eastern Tennessee and Appalachian South Carolina were below average U.S. levels of unemployment. Over the 1970-77 period unemployment rates dropped in several eastern Kentucky districts, while in northern Georgia and Appalachian South Carolina they increased from exceptionally low 1970 levels.

Highest 1977 rates of unemployment were found in the mountain highlands of Virginia's Central Shenandoah district, in western Maryland, central West Virginia, in the Southern Alieghenies and northeastern districts in Pennsylvania, and the western half of Appalachian New York. In addition there was one district, Northeast Missisaippi, in the Deep South. Unemployment rates were much higher in 1977 than in 1970 in nearly all of these districts, and all except two districts were in Northern Appalachia:

Appalachian Employment by Industry

Civilian employment in the Appalachian Region numbered 6.5 million persons in 1970, or 8.5 percent of the national total, slightly less than the Region's share (9.0 percent) of U.S. population. Manufacturing, the largest industry group, was even more dominant in the Region than in the nation, with nearly one-third of regional employment (see Figure 2 on page 47). In Southern Appalachia this share was 37 percent (see Figure 3 on page 50). Within manufacturing, two industries (textiles and apparel, and primary metals) had a concentration of employment between 2.7 and 2.8 times the national ratio. Only one other industry, mining, had a comparable level of concentration, based upon the coal mining industry. Only one other nonmanufacturing industry, railroads (with railway express service) had a concentration level as high as 1.5 times the U.S. average. See Figure 4 on page 51.

Central Appalachia, with 9.6 percent of the Region's population, had

Table 17

Civilian Resident Labor Force, Employment and Unemployment Appalachian Region and United States

			1977 A	verage		**	-	
		Civilian	Employed Persons	Unemployed Persons	Civilian Labor Force Unemployment	Civiliyn Lab	or Force Une	mployment 1970
Beographicăi Divișion	N	Labor Force (thousands)	(thousands)	(thousands)	(percent)	(percent)	(percent)	(percent)
United States		97,401	90,546.1	6,855	7.0%	7.7%	8.5%	4.9%
Appalachian Region		8,142.5	7,558.1	584.4	7.2%	7.6%	8.7%	5,4%
Subregions	1	4 00° °		- 047 0	9 G 0/	8.4%	8.9%	5,5%
Northern Appalachia	.0	4,095.5		317.8 9.9	7.8% 10.9	10.1	9.9	6.2
Maryland 3	•	90.7 465.6	80.8 426.1	39.5°	8,5	9.1	8.6	5.1
New York ** Ohio		476.7	441.0	35.7	7.5	8.8	10.1	6.5
Pennsylvania		2,492.3	2,299.2	193.1	7.7	8.3	9:0	5.3
- West Virginia		570.2	530.5		7.0	7.7	7.4	6.0
Central Appalachia	•	749.3	701.2	48.1	6.4%	6.6%	7.8%	7.0%
Kentucky		392.2	370.4	3. 21.8 11.5	5.6	6.4	7.6	7.5
Tennessee	į.	147.6	136.2	11,5	7.8	7.7	11.4	6.6
Virginia `		86.6	81.2	5.4	6.3	6.0	6.0	6.9
West Virginia		122.8	* 113.5	9.3	7.6	6.5	5.4	6.3
Southern Appalachia		3,297.7	3,079.2	218.5	6.6%	6.7%	8.7%	4.9%
Alabama		972.6	899.8	72.8	7.5	7.1	8.1	6.2
Georgia	•	424.9	398.0	26.9	6.3		9.3	3.8
Mississippi *		198.2	183.9	14.3	7.2	6.5	9.1	5.1
North Carolina		547.7	517.2	30.6	5.6	6.0	9.3	4.5
South Carolina		350.6	328.5	22.0	6.3	6.2	8.7	3.7
Tennessee		√669,3 .	626.1	43.2	6.5	5.9 ,	8.3	4.9
Virginia	1	134.4	125.7	8.7	6.5	7.7	8.8	. 34.5
State Parts*				,		A 0.0	0.004	:) F. DOV
Tennessee		816.9	762.3	-54.6	6.7%	6.2%	8.8%	5.2%
Virginia		. 221.0	206.9	14.1	6.4	7.1	7.7	5.4
West Virginiat		693.0	644.0	49.0	7.1	5 ﴿	7.0	∖6.1

Source: National data from U.S. Department of Labor, Bureau of Labor Statistics, based on U.S. Bureau of Census household surveys. State data from individual state reporting agencies.

^{*}Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here. †Entire state.

Table 18

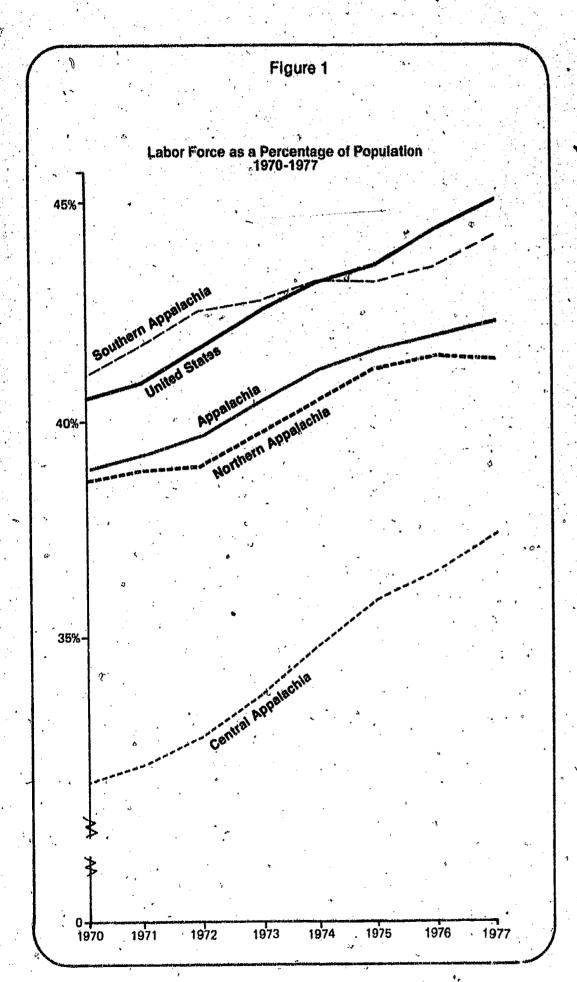
Civilian Resident Labor Force, Employment and Unemployment Non-Appalachian States, Appalachian States and Non-Appalachian State Parts 1970–1977

		1977 A	6				
	Civilian	Employed	Unemployed	Civilian Labor Force	Civilian Lab	or Force Une	mployment
Georgraphical Division	Lábor Force (thousands)	Persons (thousands)	Persons (thousands)	Unemployment (percent)	1976 (percent)	1975 (percent)	1970 (percent)
Non-Appalachian States					a ya		
(37 states and Washington, D.C.) &	62,556	58,200	4,366	7.0%	7.6 %	. 8.5 %	5.15%.
13 Appalachian States*	34,835 ,	32,346	2,489	7.1%	7.8 %	8.4 %	4.6 %
Non-Appalachian State Parts†	26,693	24,789	1,904	7.1%	7.85%	8.35%	4.4 %
Northern States Maryland New York Ohio Pennsylvania	16,163 1,856 7,297 4,334 2,676	14,907 1,748 6,628 4,059 2,471	1,256 108 688 275 205	7.8% 5.8 9.2 6.3 7.7	8.75% 6.6 10.3 7.7 7.55	8.8 % 6.7 9.6 9.0 7.7	4.4 % 3.2 4.4 5.2 3.8 ₃
Central States Kentucky Tennessee Virginia	4,367 1,116 1,089 2,162	4,141 1,068 1,024 2,049	226 48 65 113	5.2% 4.3 6.0 5.2	5.7 % 5.3 5.9 5.8	6.9 % 7.2 8.0 6,3	3.9 % 4.3 4.5 3.2
Southern States Alabama Georgia Mississippi North Carolina South Carolina	6,163 561 1,834 766 2,072 929	5,742 520 1,705 709 1,948 859	421 41 129 57 124 70	6.8% 7.3 7.0 7.4 6.0 7.5	7.0 % 6.1 8.1 6.6 6.3 7.2	8.15% 7.0 8.4 6.6 8.5 8.7	4.5 % 5.6 4.1 4.6 4.3 5.3

Source: National data from U.S. Department of Labor, Bureau of Labor Statistics, based on U.S. Bureau of Census household surveys. State data from individual state reporting agencies.

^{*}Entire state.

[†]Enfire state of West Virginia is included in data for Appalachian states in Table 17.



in 1970 7.6 percent of its employed population and only 4.8 percent of manufacturing employment, but over 36 percent of its mining employment (primarily coal mining) and 16 percent of agricultural employment (see Table 20 on page 52). During the 1960s, in Central Appalachia agricultural employment dropped by more than one-half and mining by 30 percent so that much of Central Appalachia suffered depressed conditions, though its manufacturing employment increased by 35 percent (not enough to offset the losses).

The Region as a whole increased its employed labor force by 11 percent between 1960 and 1970, a very slow rate of growth compared with the nation (16.5 percent). The increase for the subregions was: Northern, 6.5 percent; Central, 4.2 percent; and Southern, 20.0 percent. The growth of manufacturing in the Region was about the same as for total civillan employment (11 percent) during the 1960s.

Figure 5 on page 53 shows growth trends in major industrial group employment from 1965 to 1975. Though these data are based only on covered employment (see footnote, Figure 5) and refer to jobs rather than people, they are the most nearly comparable uniform data series available for years since 1970 from the U.S. Bureau of the Census.

Manufacturing Industry Employment and Its Localization in the Appalachian Region

Manufacturing industry employment was more concentrated in the Ap-

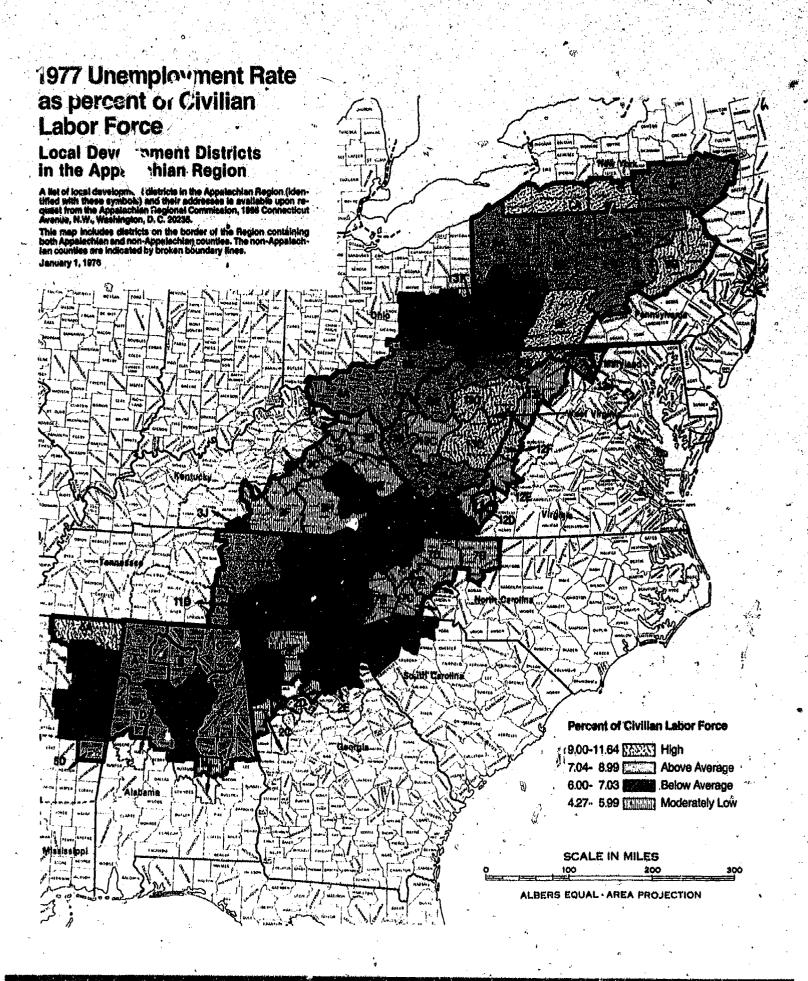
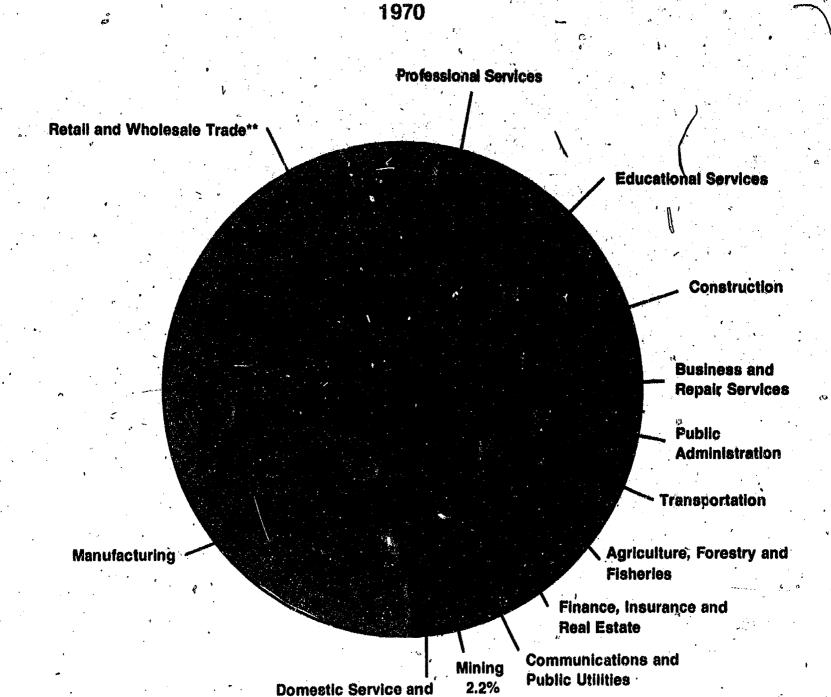


Figure 2

Percent of Civilian Appalachian Labor Force Employed by Industry Division



Total Civilian Labor Force: 6,499,200

All labor force figures include civilian labor force only.

Entertainment*



^{*}Domestic service in private households, 1.6%; entertainment and recreation services, 0.5%.

^{**}Retail trade, 14.7%; wholesale trade, 3.2%.

Table 19

Civilian Resident Labor Force, Employment and Unemployment Appalachian Region and Local Development Districts 1970–1977

•		•	1977	8 "				
LDD Code	State and Local Development District	Civilian Labor Force (thousands)	Employed Persons (thousands)	Unemployed Persons (thousands)	Labor Force Unemployment (percent)	Civilian Lab 1976 (percent)	or Force Uner 1976 (percent)	1970 (percent)
	Appalachian Region	8,142.5	7,558.1	584.4	7.2%	7.6%	8.7%	5.4%
	Alabama;	x *	:	•				
1A	NW Alabama	80.9	74.2	6.7	8.3%	0 10/	10 20/-	7 60/
1B	North Central Alabama	68.4	62.7	5.8 °		8.1%	10.3%	7.6%
1 <u>C</u>	Top of Alabama	170,7	157.2		8.4	8.6	9.1	6.1
ìĎ	West Alabama	81.4	75.4	13.5	7.9	7.8	9.1	6.4
1E	Birmingham Regional	383.6	357.1	5.9	7.3	5.9	7.0	6.2
1F	East Alabama	172.3	158.7-	26.5	6.9	6.6	6.7	5.4
1H	Central Alabama*	15.3	136.7	13.6	7.9	7.3	9.6	7.1
111	, Ochtral Alabattia	, 30.0 ₍	. 14.0	0.8	5,0	4.6	4.9	3.6
•	Georgia:		* P &	is	•	. •		
2A	Coosa Valley	150.2	139.7	10.5	7.0%	.′ 8.9%	9,5%	4.1%
2B	Georgia Mountains	89.5	83.6	5.9	6.6	9:0	10.4	3.5
2C	- Chattahoochee-Flint*	34.2	32.3	.1.9	5.6	7.7	8.5	3.5
2D.)	Atlanta Regional*	51.3.	7. 48.6	2.6	5.0 5.1	5.5	. 6.4	
.5E_,	NE Georgia	27.2°	25.4	2.0 1.8	6.8	7.5	9.3	2.6
2F	North Georgia ,	72.6	68.4		5.8	8.7		,2.8
1	· · · · · · · · · · · · · · · · · · ·	72.0	. 00.4	4.2	5.0	0.7	10.1	4.7
,	Kentucky:						.	
3A -	Buffalo Trace*	9.5	9.0	5.0	5.4%	4.8%	6.5%	3.9%
′ 3B	FIVCO	48.6	46.1	2.5	5.1	5.2	7.1	6.3
3C	Bluegrass*	62.0 °	59.1	2.9	4.6	5.4	7.1	4.7
3D	Gateway	25.8	24.3	1.5	5.8	6.4	8.5	6.1
3E	Big Sandy	61.9	58.3	3.6	5.8	6.3	6.1	8.9
3F	Lake Cumberland*	59.3	56.2	3.1	5.2	6.0	8.3	7.6
3H	Cumberland Valley	80.2	75.5	4.7	5.9	7.3	7.9	9.7
31	Kentucky River	39.7	37.1	2:7	6.7	8.5	8.8	9.0
3J	Barren River*	5.2	4.9	0.3	6.2	· 5.5	9.3	4.5
	,	V16	**************************************	0.0	• .	0,0	5,0	4.0
	Maryland:			A				•
4A	Tri-County	90.7	80.8	9.9	10.9%	10.1%	9.9%	6.2%
	Mississippi:	•	•			56		*
5A	NE Mississippi	53.8	48.7	5.1	9.5%	8.3%	`10.8%	5.6%
5B	Three Rivers*	75.6.	70.7	3.1 4.8	6.4		9.0	4.7
5C	Golden Triangle	65.3	61.2	4.0 4.1	6.2	5.7 5.6	7.8	4.7
5D	East Central Mississippi*	3.6	3.2	0.3		10.8		
บบ	cast orintal mississippi	ა.0	. 3.2	0.3	9.9	10.0	. 9.8	8.7
:	New York:		u u	•				
6A	Southern Tier West	120.7	109.8	10.9	9.0%	10.0%	9.4%	5.5%
6B	, Southern Tier Central	91.3	82.7	8.5	9.3	9.3	9.2	5.2
6C	Southern Tier East	253.7	233.6	20.1	7.9	8.6	8.0	4.9
								,

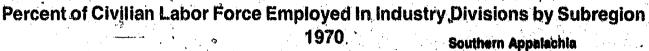


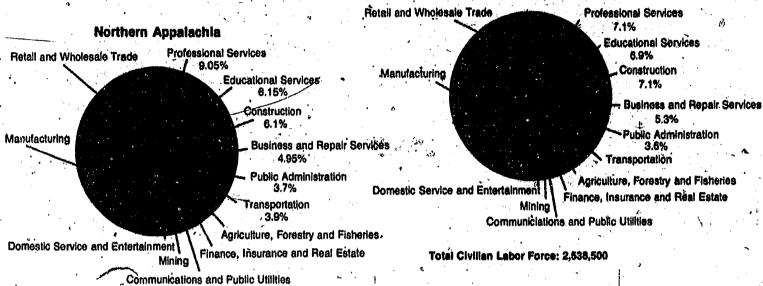
			1977	Average				naleumeet
,		Civilian	Employed	Unemployed	Labor Force		abor Force Unemployment	
	State and Local Development District	(thousands)	(thousands)	Persons (thousands)	Unemployment (percent)	1976 (percent)	(percent)	(percent)
	North Carolina:				•			
7A"	SW North Carolina	54.0	50.4	3.6	6.6%	6.7%	11.0%	6,5%
7B	Land-of-Sky	111.2	105.3	6.0	5.4	5.4	9.0	4.4
7.C	Isothermal*	48.7	46.2	2.5	5.1	5.3	9.7	4.0
7D		74.0	69.9	4,1	5.5	6.47	9.9	5.5
7E	Western Piedmont*	74.2	69,9	4.3	5.8	6.6	10.3	4.7
7G	NW North Carolina	185.6	175.4	10.2	5.5	6.1	8.3	4.8
	Mhin.			d				
,8A	Ohio: Ohio Valley	184.7	169.4	15.4	8.3%	10.0%	11.6%	7.376
8B	Buckeye Hills-Hocking Vailey	· ·	82.0	6.2	7.1	8.5	9.7	6.4
8C	Ohio Mid-Eastern	203.7	189.6	14.1	6.9	7.8	8.9	5.9
	Domantumalas				*0			
9A	Pennsylvania: NW Pennsylvania	314.1	290.0	24.1	7.7%	8.7%	9.5%	4.7%
9B	North Central Pennsylvania	104.1	95.7	8.4	8.1	7.9	11.0	6.9
9C	Northern Fier	68.8	63.4	5.4 ^	7.8	8.1	\$ 9.9	6:1
9D	NE Pennsylvania	385.8	349.4	36.4	9.4	9.2	10.8	5.2
9E	SW Pennsylvania	1,162.4	1,083.4	79.0	6.8	8.0	7.6	5.3
9F	Southern Alleghenies	201.9	183.0	18.9	9.4	7.8	9.0	5.6
9G	SEDA-COG†	255.3	234.4	20.9	8.2	8.5	10.5	5.2
	South Carolina:	•	٠,					
_{>.} 10A	SCACOG	350.6	328.5	22.0	6.3%	6.2%	8.7%	3.7%
•	Tennessee:	•					.	,
11A	Upper Cumberland	29 0.4	83.5	6.9	7.6%	7.1%	11.6%	6.9%
11B	East Tennessee	329.2	306.7	22.5	6.8	6.4	8.7	4.4
110	First Tennessee-Virginia	162.0	152.0	10.0	6.1	6.0	8.2	6.4
110		9.2	27.1	2.1	7.2	6.1	8.3	8.5
11E		206.2	193.0	13.2	6.4	5.7	7.9	4.5
•	Virginia:	• / •		. 4	tr	•	<i>I</i>	er
12A	LENOWISCO	37.2	34.8	2.4	6.6%	6.6%	6.3%	7.0%
128		49.4	46,4	3.0	6.1	5.5	5.8	6.8
. 120		79.3 🏲	73.7 27.0	5.6	7.0	8.1	9.2	4.6
120		28.5	27.0	1.5	5.1	6.4	8.2	5.0
125		22.8	21.6	1.2	5.4	7.0	7.1	3.1
12F	· ·	3.7	3.3	. 0.4	11.6	14.9	16.2	6.3
	West Virginia:			o .,	7 00	E 00/	5.1%	6.4%
134		90.2	83.8	~ 6.5 ·	7.2%	5.9% <i>,</i>	7.0 7.0	6.4% 6.4
138		99.8	92.4	7.4	7.4	7.7		
130		125.2	118.5	6.7	5.4	/ 6.1	5.8	5.0
13[45.8	41.1	4.7	10.3	9.1	7.0	8.5
13E		64.5	59.8	4.7	7.3	9.9	10.6	6.8
13F		97.6	90.5		7.2	7.2	7.0	4.6
130	Region 7	40.4	, 36.4	4.1	10.1	12.0	9.6	∞6.5
131	H Region 8	. 23.8	22.4	1.3	5.6	6.1	5.9	3.8
131		28.9	26.7	2.2	7.5	8.5	8.4	5.6
1,3,	J Bel-O-Mar	49.8	46.6	3,2	6.5	7.6	7.5	5.1
13	(B-H-J (Region 11)	_: 27.0	25.8	1.2	4.3	4.2	4.7	3.2

Source: National data from U.S. Department of Labor, Bureau of Labor Statistics, based on U.S. Bureau of Census household surveys. State data from individual state reporting agencies.
*Data are only for that portion of the local development district in the Appalachlan Region.
†Includes Perry County, Pennsylvania.



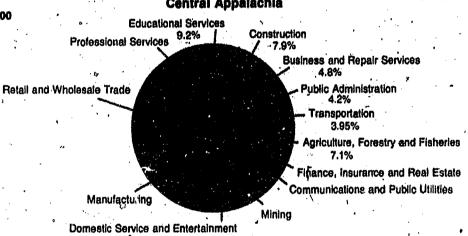
Figure 3





Total Civilian Labor Force: 3,466,800

Central Appalachia



Total Civillan Labor Force: 494,100

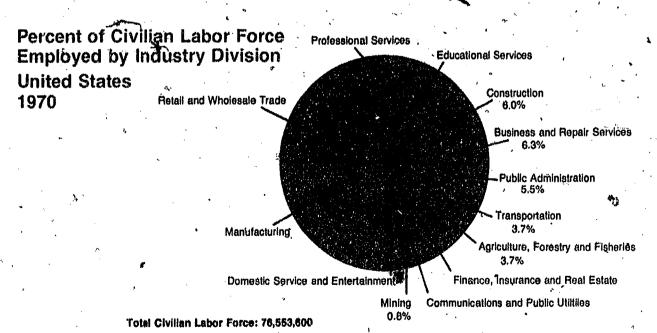


Figure 4

Civilian Employed Persons in Manufacturing Industry Groups

as a Percent of Total Employment

1970

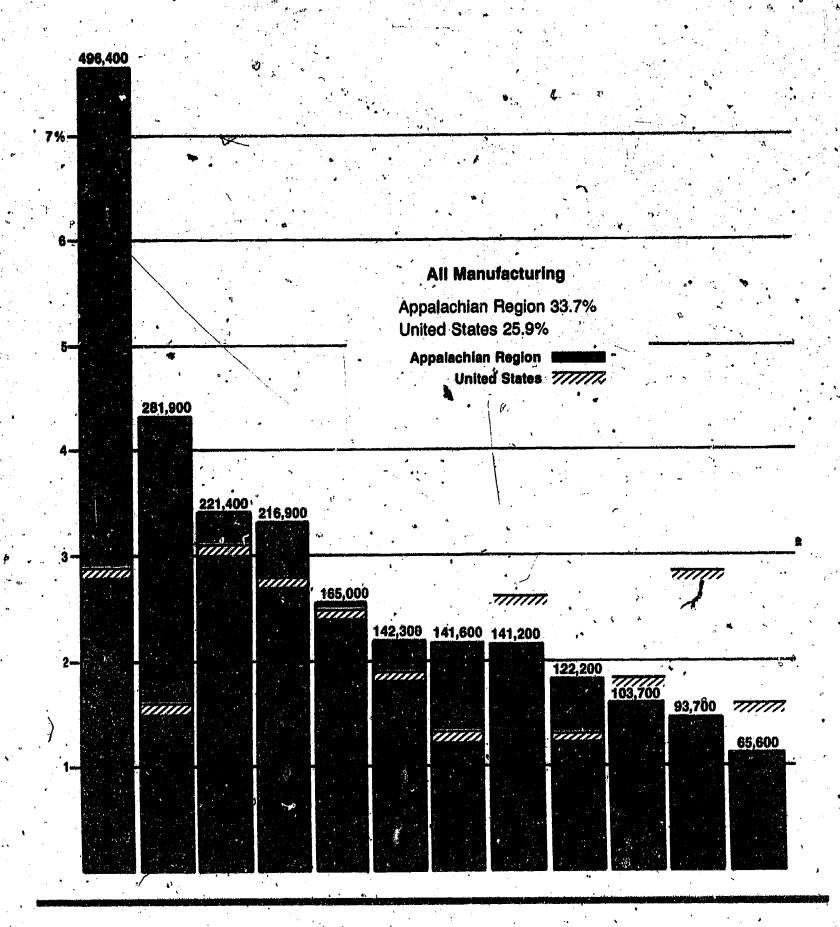




Table 20

Civilian Employed Persons by Major Industrial Group Appalachian Region and Subregions

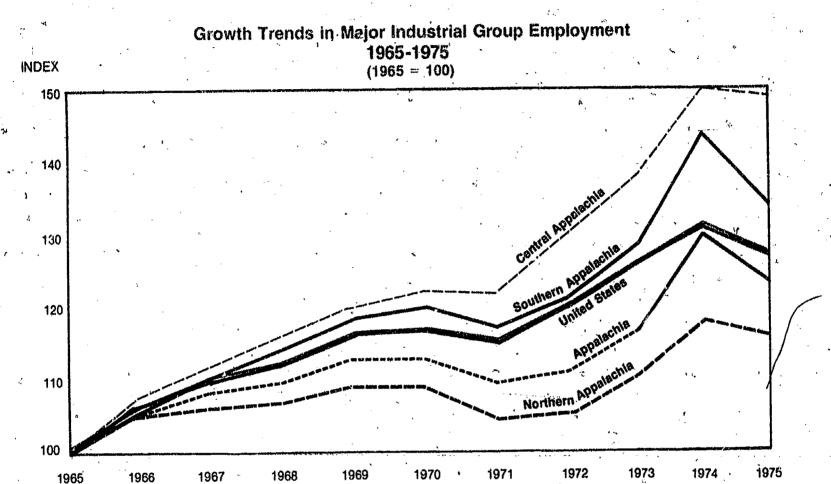
Civilian Er ployed Persons by Industry Appalachian Region 1970

•		•	,			: 1
Total Employed	Appalachian Region		Central Appalachia	Southern Appalachia	Retail and Whalessie Trade	Appalachian Region
Civilian Population	6,499,200	3,366,800	494,100	2,538,500	Retail and Wholesale Trade Wholesale Trade Food, Bakery and Dairy Stores	205,600 167,400
Manufacturing	2,191,700	1,138,800	105,900	947,000	Eating and Drinking Places General Merchandise Retailing	153,100 153,800
Retail and Whole- sale Trade	1,159,000	643,400	84,300	431,300	Automotive Retailing and Service Stations Other Retail Trade	156,700 322,400
Professional Services	527,800	313,700	33,100	181,000	Professional Services Hospitals Other Medical and Health Services	218,200 103,400
Educational Services	502,800	282,500	45,500	174,700	Welfare, Religious and Nonprofit Membership Organizations Legal, Engineering and Miscellaneous	91,600
Business, Repair and Personal		•		•	Professional Services	114,600
Services	328,900.	171,600	23,700	133,500	Educational Services Public Schools and Colleges	358,900
Construction	430,600	211,300	39,200	180,200	Private Schools and Colleges Other Education Services	122,900 21,000
Public Adminis- tration	241,400	129,800	20,900	90,700	Business Repair and Personal Services Business Services	, 60 200
Transportation	225,800	135,200	19,500	71,200	Repair Services Personal Services (hotels, motels,	60,200 85,300
Agriculture, For- estry and	0.5			ı	barber and beauty shops, etc.)	183,300
Fisheries Finance, Insur-	217,300	89,500	35,100	92,700	Finance, Insurance and Real Estate Banking and Credit Agencies Insurance, Real Estate and Other Finance	82,1 0 0
ance and Real Estate	203,000	112,700	10,100	80,100	Communications and Public Utilities Communications	120,900
Communications and Public		t.		•	Utilities and Sanitary Services	68,900 119,700
Utilities	188,600	101,600	13,600	73,500	Domestic Service	101,500
Mining Other (Demokratic	145,100	76,400	52,800	15,900	Entertainment and Recreation Services	35,700
Other (Domestic Service and Entertainment)	137,200	60,200	10,400	66,600	Transportation Railroads and Railway Express Service. Trucking Services and Warehousing Other Transportation	79,300 94,700 51,900

Source: U.S. Bureau of Census, 1970 Census of Population.



Figure 5



Major Industrial Group: These data represent only employment covered by the Federal Insurance Contributions Act. This includes covered wage and salary employment of private nonfarm employers and all covered employment of religious, charitable, educational and other nonprofit organizations. It does not include government employees, self-employed individuals, farm workers, domestic service workers, railroad employees or employment on oceanborne vessels. Data refer to mid-March of the calendar year and represent covered employment in the first quarter only.

Source: County Business Patterns. U.S. Department of Commerce, Bureau of the Census.

palachian Region than in the nation in 1975 as measured by any of three localization indexes: covered employment; resident civilian labor force; or total resident population.

Manufacturing employment is most concentrated in Southern Appalachia. Localization is below the national average level only in Central Appalachia where the index relative to resident population drops to just over one-half the national average.

Total 1975 manufacturing employment and localization indexes are shown in Table 21 on page 54 for the Region and three subregions, along with detail for each of the 20 major groups and for auxiliary and administrative units.

Total Manufacturing Employment 1975

Localization Index Measured
Against Base of:

Geographical Division Appalachian Region	Total Covered Employment 133	127	Total: Resident Population 120
Northern Appalachia	126	. 123	115
Central Appalachia	86	63	53
Southern Appalachia	151	146	143

Employment data are from County Business Patterns, 1975.

The five leading industry groups in the Region in 1975 were: primary metals, textile mills, apparel and textile products, machinery, and electric

and electronic industries. Together they accounted for 53 percent of all manufacturing establishment employment in the Region with a total



Table 21

Manufacturing Industry Employment by Major Industry Group Appalachian Region March 1975

FICA Covered Employment, March 1975

	•			****	rick covered Emplo)	
Major Industry Group	•	SIC Code	•	Appalachian Region (thousands)	Northern Appalachia (thousands)	Central Appalachia (thousands)	Southern Appalachia (thousands)
Total Manufacturing Localization Index				1,968.6 133	983.4 126	ን 7.0 86	898.3 151
Manufacturing Establishments Localization Index	,	•	<i>y</i> :	1,878.1 136	923.5 126	84.9 90	869.7 156
Primary Metal Industries Localization Index		33		255.5 275	185.3 377	7.5	62,8
Textile Mill Products Localization Index		22 .	2.	232.8	, 19.6	117 2.9	168 210.3
Apparel and Textile Products Localization Index		23	,	357 208.4	57 69:1	65 21.2	801 118.2
Machinery, except Electrical Localization Index	2" - S	35		219 151.2	137 102.2	325 8.2	308 40.7
Electric and Electronic Equipment Localization Index		36 ·		91 143.1	116 83.6	72 7.7	61 51.7
Fabricated Metal Products Localization Index		34		113 130.1	125 79.5	89 2.7	102 47.9
Chemicals and Allied Products Localization Index	`	28		116 103.6	133 42.5	35 ₫6.4	106 54.7
Food and Kindred Products Localization Index	• .	20		154 103.3	119⊳ 48.5	138 4.3	202 50.5
Stone, Clay and Glass Products Localization Index	è	32		89 (93.7	79 67.6	54 2.4	. 108 23.7
Furniture and Fixtures Localization Index	J · · .	25		202 70.7	276 16.0	75 2.1	127 52.6
Transportation Equipment Localization Index		37 _n		223 66.2	95 46.0	96 2.1	412 18.2
Printing and Publishing Localization Index	,	27		52 57.8	68 34.9	24 2.0	- 35° 20,8
Lumber and Wood Products Localization Index		24		67 56.7	76 23.1	34 6.1	60 27.5
Rubber and Miscellaneous Plastic Pro Localization Index	ducts	30		124 51.6	96 24.5	196 1.5	150 25.6
Paper and Allied Products Localization Index		26		109 47.7	98 23.2	48 1.2	135 23.3
Leather and Leather Products Localization Index		31		102 27.1	93 15.8	38 3.0	123 8.3
Instruments and Related Products Localization Index		38		, 149 27.1	164 18.3	244 1.3	114 7.4
Miscellaneous Manufacturers Localization Index		00		65 27.0 83	83 13.8	47 1.4	44 # 11.8
Tobacco Manufacturers Localization Index		21		17.0 320	80 4.3	62 0	90 12.7*
Petroleum and Coal Products Localization Index		29		7.4 64	153 5.7	0.8	594 1.0
Administrative and Auxiliary Units Localization Index	i _a			90.5 99 ,	92 59.9 124	101 2′.1 33	20 28.6 78

Source: Special tabulations from U.S. Bureau of Census, County Business Patterns 1975 Washington, D.C., U.S. Government Printing Office 1977—78. Localization Indexes computed by ARC staff, based on County Business Patterns 1975 first quarter employment covered by the Federal Insurance Contributions Act, for the United States, the Appalachian Region and the three subregions. An index of 100 means that the industry employment in the given area is the same proportion of the total as in the United States as a whole.

^{*}Primarily localized in Forsyth County (Winston-Salem), North Carolina.



of 991,000. Appalachia contained 14.6 percent of all U.S. employment in these industries for a localization index of 181. Textile mills were most localized (bbt only in Southern Appalachia), while primary metals and apparel industries followed.

Including the next four industry groups (see Table 21 on page 54), the leading nine groups employed 1,422,000 persons at manufacturing establishments in Appalachia or 76 percent of the total in 1975. The remaining eleven industry groups had a total employment of only 456,000 in the Region or less than the two largest groups. Among these, refatively high localization indexes were found only for furniture and fixtures in Southern Appalachia, leather and leather products distributed throughout the Region and tobacco manufactures concentrated in Winston-Salem, North Carolina. Of the twenty major industry groups, employment localization indexes for the Appalachian Region were above 200 for six: between 100 and 200 for seven and below 100 for seven in 1975. The lowest index in the Region was 52 for transportation equipment industry employment. This pattern reflects both the diversity within Appalachia and specialization in many industries which are resource-based or laborbased within the Region.

Geographic Concentration of Manufacturing Industry

Within the Appalachian Region 18 counties had 1975 manufacturing employment equal to 1 percent or more of the Region's total, accounting for a grand total of 730,000 or 37 percent of total Appalachian manufacturing employment. Ten of these counties were located in Northern Appalachia, including all four of

LEADING MANUFACTURING COUNTIES IN THE APPALACHIAN REGION March 1975

Rank	County (Principal Conter)	1975 Manufacturing Employment	L'ocalization index
1:	Allegheny, PA (Pittsburgh)	162,111	97
2	Jefferson, AL (BirmIngham)	59,320	84
· 3	Greenville, SC (Greenville)	46,067	. 119
4 ′.	Forsyth, NC (Winston-Salem)	44,169	136
5	Erie, PA (Erie)	43,398	156
6	Boaver, PA (Pittsburgh SMSA)	40,252	202
.7	Luzerne, PA (Wilkes-Barre)	40,108	139
8	Hamilton, TN (Chattanooga)	40,065	130
9,	Westmoreland, PA (Pittsburgh SMSA)	35,796	132
10	Spartanburg, SC (Spartanburg)	35,352	184
11 .	Broome, NY (Binghamton)	30,703	148\
12	Lackawanna, PA (Scranton)	25,972	130 \
13、	Knox, TN (Knoxville)	23,639	[*]
14	Sullivan, TN (Kingsport)	23,543	155
15	Anderson, SC (Anderson)	21,079	195
16	Schuylkill, PA (Pottsville)	19,813	172
17	Washington, PA (Pittsburgh SMSA)	19,486	124
18	Cambria, PA (Johnstown)	19,250	_% 119
Subtotal,	10 Northern Appalachian Counties	436,889	∜ 123
	8 Southern Appalachian Counties	293,234	119
TOTAL,	18 Appalachian Counties County Business Patterns 1975.	730,123	122

the Pittsburgh metropolitan area counties, and eight in Southern Appalachia. The 1975 localization indexes for manufacturing ranged from a high of 202 in Beaver County, Pennsylvania, to a low of 84 in Jefferson County, Alabama, with a mean value for all 18 counties of 122. The individual counties with their rank in the Region and index follows.

Total Personal Income in the Appalachian Region

Total personal income in Appalachia increased from \$39 billion in 1965 to

\$104 billion in 1976, but because of both inflation and population change it is more instructive to study relative levels.

Regional per capita inc. Te levels gained on the national level: from 1965 to 1976 they increased from 78.2 percent to 84.8 percent of the U.S. average level, with 4 percentage points of this gain in the 1970–76 period (see Table 22 on page 56). All subregions shared in this relative growth, but the advance was quite slow in Northern Appalachia, while the most rapid gains were in Central Appalachia. Southern Appalachia did better than the regional average (see Figure 6 on page 57). All state areas excepting Ap-



Total Personal Income, per Capita Income and Relative Levels Appalachian Region and the United States 1965–1976

	Population*	Total Personal	Total Pers	onal Income	per Capita ^	ار المائية المائية المائي			
	July 1, 1976	1976	1976	1975	1970			I.S. Averag	
Geographical Division	(thousands)	(millions)	(dollars)	(dollars)	(dollars)	1976	1975	1970	1965
United States	214,648	\$1,372,833	\$6,396	\$5,903	\$3,966	100%	100%	100%	100%
Appalachian Region	19,194	\$ 104,161	\$5,427	\$4,946	\$3,203	. 85% .	84%	81%	78%
Subregions				T()					
Northern Appalachia	.9,911	\$ 57,277	\$5,779	\$5,295	\$3,483	90%	90%	88%	87%
Maryland Maryland	217	1,163	5,349	5,067	3,316	84	86	84	81
New York	1,090		5,465	5,235	3,640	85	ล้า	92	90
Ohio	1,190	6,111	5,134	4,654	3,101	80		78	76
Pennsylvania	5,956	35,967	6,039	5,511	3,606	94	63	.91	90
West Virginia	1,458	8,080	5,541	5,012	3,176	87	85	80	80
Central Appalachia	1,939	\$ 8,934	\$4,607	\$4,121	\$2,342	72%	70%	59%	52%
Kentucky ^o	~980 -	4,245	4,330	3,901	2,200	.68	66	55	49
Tennessee	372	1,622	4,356	3,905	2,373	68	66	60	53
Virginia	224	1,156	5,156	4,558	- 2,440	81	77.	62	49
West Virginia	362	1,911	5,272	4,669	2,622 /	82	79 '	66	59
Southern Appalachia	7,344	\$ 37,950	\$5,168	\$4,687	\$3,024	81%	- 79%	76%	73%
Alabama	2,273	12,068	5,309	_ 4,840	3,049	83	82	77	75
Georgia	973	4,774	4,906	4,546	2,974	77	77	75	70
Mississippi →	446	1,942	4,349	3,744	2,431	68	63	61	53
North Carolina 7	1,122	6,025	5,369	4,830	3,149	84	82	79	75
South Carolina	729	3,972	5,448	4,849	3,251	85	82	82	78
Tennessee	1,512	7,868	5,202	4,748	3,06 5	81 `	80	~ 77	75
Virginia	287	1,301	4,533	4,136	2,652	71	70	67	60
State Parts †	. (ne se	• .			. •	•	. *
Tennessee	1,88 5	\$ 9,490	\$5,035	\$4,583 ·	\$2,931	79%	78%	74%	70%
Virginia	511	2,457	4,806	<. 4,318	2,563	75	73	65	55
West Virginia [‡]	·' 1,821	9,991	5,487	4,946	3,069	86	84	77	76

Source: U.S. Department of Commerce, Bureau of Economic Analysis, tabulations of 1976 total personal Income per capita by county for each Appalachian state. Data for all counties in the United States were published in the Survey of Current Business, June 1978. Appalachian data tabulated by ARC staff. 1975 and 1970 data for total personal Income series from special tabulations prepared for the Appalachian Regional Commission. 1970 per capita income adjusted to census state population estimates for 1970 by ARC staff. 1965 data based on tabulations of Bureau of Economic Analysis data by ARC staff.

Note: Total personal Income (TPI) includes nonmoney imputed ncome, including net rental value of owner-occupied homes; payments in kind; value of food consumed on farms; employer fringe benefits; food stamps, etc. TPI income in 1975 was 21.4 percent higher, and in 1972 and 1969 was 20 percent higher for the U.S. expressed in dollars, than personal money income (U.S. Bureau of Census revenue-sharing data series).

‡Entire state.

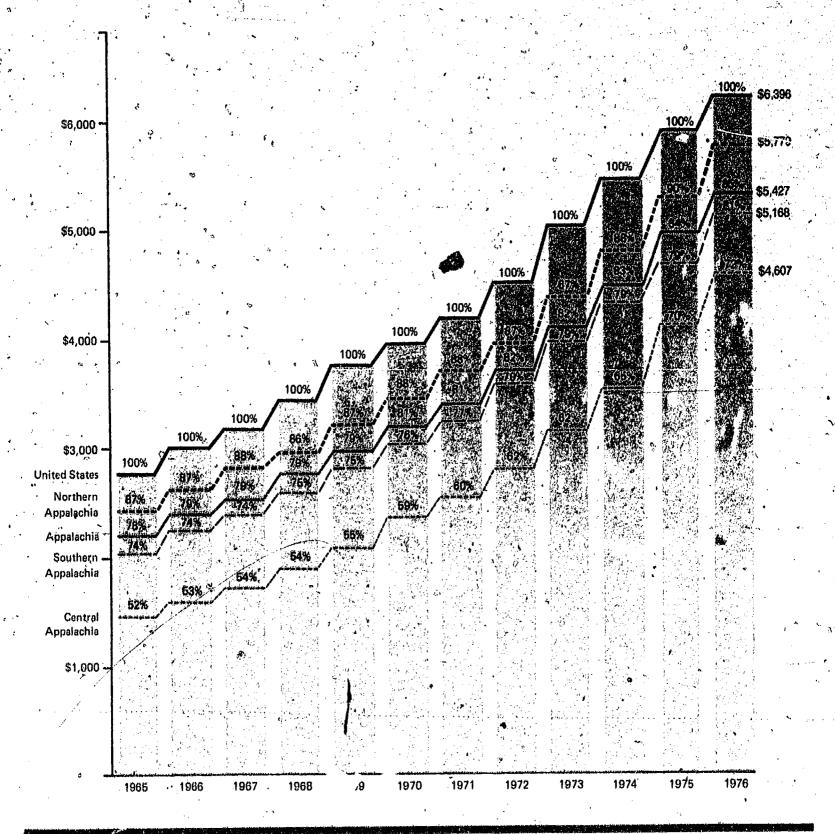


^{*}U.S. Bureau of Census provisional Population estimates for July 1, 1976.

[†]Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here.

Figure 6

Total Personal Income per Capita and Income as Percent of United States Level Appalachian Region and United States 1965-1976





palachian New York were at higher relative levels of per capita income in 1976 than in 1965.

No Appalachian state area equaled the U.S. average (and only a few counties did) in 1976, but the range in 1976 among the state parts from 94 percent in Pennsylvania to 68 percent of the U.S. per capita level in Appalachian Mississippi represents a narrowing of the gap within the Region since 1965 (New York, 90 percent: Appalachian Kentucky, 49.5 percent of U.S.).

Between 1970 and 1975 relative per capita income advanced in metropolitan and urban counties at roughly the regional rate: But rural Appalachian counties made larger gains, closing the gap sufficiently so that by 1975 their income levels were just 12 percentage points below the urban county income (the same as the gap between metropolitan and urban counties, see Table 23 on page 60). Per capita income levels were highest for all three county groups in Northern Appalachia but were almost at identical levels in Central and Southern Appalachia. The difference in 1975 per capita income levels between these two subregions reflected the different proportions of population in each county group for the subregion as a whole.

Per Capita Money Income Trends. 1969-1974

Appalachian per capita money income advanced from \$2,505 in 1969 to \$3,773 in 1974, rising from 80.3 percent to 82.5 percent of the U.S. average level in five years. However, only five counties in the Region had 1974 per capita averages higher than the U.S. average, while 392 counties were below the U.S. average. A total

of 190 counties had 1974 per capita incomes of less than 70 percent of the-U.S. average. Despite this continuing lag, adjusted per capita income in the Region over the five-year period increased at an annual rate of 2.4 percent, roughly one-third faster than the U.S. increase of 1.8 percent yearly. The difference was entirely due to the more rapid advances in income in Central and Southern Appalachia (see Table 24 on page 61).

The 1970-75 period in the Appalachian Region is best described as a period of accelerated economic and social development, with significant growth of both population and per capita income. Of the subregions, Central Appalachia had the most rapid development but started from the lowest level (58.5 percent of U.S. per capita income of 1969). Southern Appalachia, in common with other developing areas of the South, advanced with an 8-percent increase in population and per capita income rising from 77 to 81.5 percent of national levels. Northern Appalachia kept pace with the nation but did not advance from its level of 1969 income (86.5 percent of .S. per capita). Population increase (less than 2 percent) was far below the national rate.

At the county level there was a wide disparity in per capita income in 1975 (1974 income) from 108 percent of the U.S. average level in Allegheny County, Pennsylvania to 38 percent in Owsley and Wolfe Counties, Kentucky, and Kemper County. Mississippl. Generally counties with percapita money income below 70 percent of the U.S. average are rural countles with smaller populations tocated in the middle and southern portions of the Region extending southward from south-central Ohio and northeastern West Virginia.

At the local development district level (Table 25 on page 62 and map * greatest in Central Appalachia; in the

page 64), average differences diminish somewhat. This is due to the mix of countles in each district and the presence of centers of economic activity with the result that only 18 of the 69 districts had average per capita money incomes below 70 percent of the national average in 1974. Fourteen districts were in the more affluent group by regional standards; of these. nine were in Northern and five in Southern Appalachia. The middle group, with per capita levels between 70 and 85 percent of the nation's average in 1974 income, composed one-half or 12 of the districts in Northern Appalalachia, a majority (21) of the 32 districts in Southern Appalachia but only four of the 13 districts in Central Appalachia. Central Appalachia had one-half or 9 of all the lower-income development districts in the Region in 1975.

Poverty Status of Population and Families in the **Appalachian** Region

Poverty status in the 1970 Census was measured by family or individual money income levels which fell below the "poverty level" (in 1969 the level for a nonfarm family of four with a male head under 65 was \$3,715; for an individual male under 65 it was \$1,975). The proportion of household population in Apparachia with 1969 incomes below the poverty level was 32 percent higher than the U.S. proportion, but this had dropped in one decade from 41 percent higher (see Tables 26 and 27 on pages 65 and

The incidence of poverty in 1970 was least in Northern Appalachia and

Distribution of Appalachian Countles by 1974 Money Income Level

1974 Money Income Per Capita as Percentage of U.S. Level

Geographical Divisional	Total Counties						me (U.S. = 100) 40-55 under 40		
Apparachian Region		397		5	₹ 42	160	147	38	5 .
Northern Appalachia	:	143	, ,	۰ 2	28	77	33	3	, 0
Central Appalachia		85		0	, è	16	36	27	4
Southern Appalachia		16.)	· 1	3	12	67	78	8	1

Distribution of Appalachian Local Development District Areas by 1974 Money Income Level

1974 Money Income Per Capita as Percentage of U.S. Level

Geographical Division	Number of Local Development Districts	Index 100+	of Per C 85-100	apita Mo 70-85	oney Inc 55–70	ome (U. 40-55	S. = 100) under 40
Appalachian Region	, 69	2	12	37 .	15	2	1
Northern	•					!•	
Appalachia	24	1	8	12	. 3	0	0
Central		•	, ,		•		
Appalachia	13	0	0	. 4	7	2	Ò
Southern		· • •	•	•		-	·
Appalachia	32	. 1	4	21	5	.0	1 .
		•	•	•		+	

southern subregion it was somewhat above the regional average. Improvement in the 1960s relative to the United States was greatest in the South, while the northern subregion showed a modest improvement and in Central Appalachia the relative index worsened slightly though its absolute level in percentage of poverty population dropped by the greatest number of percentage points (see Table 27 on page 66 and Figure

7 on page 67). Poverty-incidence was least in Appalachian Pennsylvania, though the state had the largest total number of persons below the low-income level. The state area with the greatest incidence of poverty was Kentucky (39 percent), but the actual number ranked fifth among Appalachian state areas.

In Appalachia as in the nation, low-income population was concentrated among certain groups: blacks

and other minorities; older persons; and rural population. Table 26 shows the incidence of poverty among the Region's black families (36 percent) and among persons 65 years of age and older (37 percent). However, black families were only 6.1 percent of the Region's total (9.5 percent of the U.S. total), and older persons were 10.4 percent of Appalachian household population (9.7 percent of the U.S. total) in 1970. The incidence



Table 23

Total Personal Income, per Capita Data and Relative Levels Appalachian Region, Subregions and County Group (metro, urban, rural) 1970–1975

		•	• • •					•				
	Population	Total P	ersonal Income	Tota		Inc		ta P				Percent Change
Geographical Division	July 1, 1975* (thousands)	1975 (millions)		1975 (dollars)		;	1970 (dollars)		1975 1970		1970—1975	
United States	213,039	\$1	,257,535.0		\$5,903		\$3,966	•	100%		100%	48.8%
Appalachian Region	19,027	2	94,105.0		\$4,946	•	\$3,203		84%	,	[×] 81%	54.4%
Metropolitan Counties		•	51,755		5,466		3,567	17	93		90	53.2
Urban Counties	4,803		23,025	,	4,794		3,146		81	•	79.	52.4
, Rural Counties	4,755		19,325	•	4,065	•	2,515	•	69		63	61.6
Subregions			•		ψF .		•	•	·. ·	•		en e
Northern Appalachia	9,860.4	\$	52,210.8		\$5,295		3,483		90%		88%	52.0%
Metropolitan Counties		•	30,467.8		5,730	,	3,764	•	97		95	52.2
Urban Counties	2,838.5	•	14,177.2		4,995		3,297		85			51.5
Rural Counties	1,704.3		7,565.8	•	4,439	;! *	2,872	* .*	75		72	54.6
Central Appalachia	1,886.0		7,771,4	•	\$4,121	٠,	\$2,344		70%	•	, 59 %	75.8%
Metropolitan Counties		•	_1,022.6	•	5,149		3,159		87.		80	63.0
Urban Counties	338.2	•	1,540.7		4,556		2,690		77		68	69.4
Rural Counties	1,349.2		5,208.2	ă.	3,860		2,131		65	•••	54	81.1
Southern Appalachia	7,260.2	S	34,122.8		. \$4,687		\$3,028		79%		76%	54.8%
Metropolitan Countles		•	20,264.2	·	5,127	ı	3,301	. •	87		83	55.3
Urban Counties	1,626.5		7,307.4		4,493		2,961		. 76		75	51.7
Rural Counties	1,700,9	•	6.551.1		3.851		2.453	·5	65		62	. 57.0

Source: U.S. Department of Commerce, Bureau of Economic Analysis, special tabulations for Appalachian Regional Commission. Per capita income adjusted to conform to Bureau of Census July 1, 1970 estimates of population for states.

Note: Total personal income (TPI) includes non-money imputed income, including net rental value of owner-occupied homes; payments in kind; value of food consumed on farms; employer fringe benefits; food stamps, etc. TPI income in 1975 was 21.4 percent, and higher, and in 1972 and 1969 was 20 percent higher for the U.S. expressed in dollars, than personal money income (U.S. Bureau of Census revenue-sharing data series).



^{*}July 1, 1975, estimate is based on revised county estimates prepared by the U.S. Bureau of Census and published in Population Estimates, Series P-26 between July 1977 and January 1978.

Per Capita Money Income with 1969-1974 Trends Adjusted for Inflation Appalachian Region and United States

Population*						1969–1974 Income Changet			
Geographical Division	July 1, 1975 (thousands)	April 1, 1970 (thousands)	Per (1974 (dollars)	Capita Money Inco 1974 (in 1969 dollars)	1969	Total Change (percent)	Annual Rate (percent)	1974 per capita Income Index (U.S. = 100)	
United States	214,659	203,305	\$4,572	\$3,411	\$3,119	9.4%	1.8%	100	
Appalachian Region	19,070	18,217	\$3,773	\$2,815	\$2,505	12.4%	2.4%	82.5	
Subregions :									
Northern Appalachia	9,896	9,734	\$3,957	\$2,953	\$2,698	9.4%	1.8%	86.5	
Maryland	215	209	3,885	2,899	2,599	`11.5	2.2	85	
New York	1,081	1,057	3,912	2,919	2,845	2.6	0.5	86	
Ohio	1,191	1,130	3,613	2,696	2,443	10.4	2.0.	79	
Pennsylvania	5,962	5,931 a	4,098	3,058	2,790	9.6	1.9	90	
West Virginia	1,446	1,408	3,704	2,763	2,421	14.2	2.7	81	
Central Appalachia	1,896	1,745	\$2,995	\$2,235	\$1,824	22.5%	4.1%	65.5	
⁽¹⁾ Kentucky	958	877	2,834	2,114	1,732	22.0	4.1	. 62	
Tennessee	365	335	3,023	2,256	1,931	16.8 🗻	3.2	· · · 66	
Virginia	220	197	3,220	2,402	1,807	33.0	5.9	70	
West Virginia	354	336	3,265	2,436	1,966	23.9	4.4	71	
Southern Appalachia	7,278	6,738	\$3,726	\$2,780	\$2,402	15.7%	3.0%	81.5	
Alabama	2,241	2,137	3,787	2,826	2,430	16.3	3.1	. 83	
Georgia	958	814	3,711	~ 2,769	2,419	14.5	2.7	81	
Mississippi	445	419	2,953	2,203	1,861.	18.4	3.4	† . 65	
North Carolina	1,118	1,039	3,808	2,841.	2,437	16.6	3 .1	83	
South Carolina	724	656	3,976	2,966	2,571	15.4	2.9	. 87	
Tennessee	1,503	1,400	3,746	2,795	2,438	14.6	2.8	82	
Virginia	289	273.	3,439	2,566	`2,250	14.0	2.7	75	
State Parts [‡]		• .		,	•				
Tennessee	1,868	1,735	\$3,605	\$2,690	\$2,340	14.9%	2.8%	79	
Virginia	509	. 470	3,344	2,495	2,064	20.9	3.9	73	
West Virginia§	1,799	1,744	3,617	2,699	2,333		3.0	79	

^{*}U.S. Bureau of Census population and per capita income estimates for revenue sharing published in Current Population Estimates (Series P-25, Nos.

^{*}U.S. Bureau of Census population and per capita income estimates for revenue sharing published in Current Population Estimates (Series P-25, Nos. 649–698), Washington, D.C., 1977.

†1974 Income expressed in approximate 1969 dollars to eliminate inflation. The factor used is 1974/1969 = 1.3403 based on a weighted index composed of disposable personal income and cost of government purchases of goods and services used as a deflator of 1974 dollars. Source: Economic Report of the President, January 1978, Washington, D.C., 1978, Tables B-3 and B-22. 1969–1974 income change is measured after adjustment for inflation.

‡Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here.

§Entire state.

Table 25

Per Capita Money Income with 1969–1974 Trends Adjusted fo. 'nflation Appalachian Region and Local Development Districts

47		Danut	elland (4000 4074 1-		†
	•	Popula		Per Ca	pita Money Ir	icome ⁿ	1989-1974 In		
LDD	State and Local	July 1, 1975	April 1, 1970	1974	1974 in	1969	Total	Annual	1974 per capita
Code	· · · · · · · · · · · · · · · · · · ·				1969 dollars	(dollars)	Change (percent)	Rate (percent)	income index (U.S. = 100)/
	Appalachian Region	19,070.0	18,217.1	\$3,773	\$2,815	\$2,505	12.4%	2.4%	83
	Alabama:				4 2,010	42,000	16.470	2.70	00
1A	NW Alabama	196.3	182.1	\$3,461	\$2,582	\$2,236	15.5%	2.9%	70
18	North Central Alabama	169.6	157.0	3,400	2,537	2,236	13.5	2.6	76
10	Top Of Alabama	380.3	363.6	3,820	2,850	2,600	9.6	1.9	74
1D	West Alabama	180.6	180.8	3,308	2,468	2,084	19.6	3.6	
1E	Birmingham Regional	850.8	819.3	4,281	3,194	2,651	20.5	3.8	94
1F	East Alabama	413,6	400.9	3,335	2,488	2,185	13.9	2.6	73 -
ίΗ	Central Alabama‡	40.3	33.7	3,189	2,379	2,038	16.7	3.1	70 70
· · · · · · ·	Georgia:		, 00.1	0,100	£101;0	2,000	10.7	* .*	70
2A	Coosa Valley	332.9	302.7	\$3,634	\$2,711	\$2,450	10.7%	2.00/	70
2B	Georgia Mountains	199.0	176.8	3,415	2,548	2,235	14.0	2.0% 2.7	79 .
2C:	Chattahoochee-Flint [‡]	58.6	50.8	3,491	2,605	2,2311	14.0	2.4	75
2D	Atlanta Regional‡	158.5	101.Ď	4,622	3,449	2,821	22.2	4.1	76
2E	NE Georgia‡	58.4	51.5	3,233	2,412	2,177	10.8	2,1	a 101
2F	North Georgia	150.5	131.1	3,588	2,412	2,424	10.4	2.0	71 70
۵,	Kentucky:	100.0		. 0,000	2,011	2,7 2 7	10.47	٠.٥	78
- 3A	Buffalo Trace‡	24.7	23.7	\$2,682	\$2,001	\$1,829	9.4%	4 '00/	
3B	FIVCO	127.0	122.1	σε,002 3,527				1.8%	59
30	Bluegrass [‡]	., 121.9	113.4	3,235	2,632 2,414	2,284	(15.2.	2/.9	77
3D	Gateway	. 58,6	. 55.7	2,783	2,414 2,076	2,148	12.4 17.2	2.4	71 21
3E	Big Sandy	153.7	134.3	3,063	•	-1,772	43,3	. 7.5	61
3F	↓ Lake Cumberland‡	136.4	123,9		2,285	1,595	43.3 12.3 호	•	67
3H	Cumberland Valley	204.0		2,546	1,900	1,691		2.4	56 55
. 31	Kentucky River	119.3	184.5	2,509	1,872	1,479	26.6	4.8	55
. 3J	Barren River‡	12.0	107.2	2,377	1,773	1,293	37.2	6.5	52
00		, 12,0	11.6	2,383	1,778	, <u>.</u> 1,617	10.0	1.9	52
	Maryland:								
4A £	Tri-County	214.9	209.3	\$3,885	\$2,899	\$2,599	11.5%	2.2%	85
	Mississippi:						•		•
5A	NE Mississippi	117.8 [.]	109.6	\$2,826	\$2,108	\$1,769		3.6%	62 ·
5 B	Three Rivers‡	161.1	150.3	შ,169	2,364	1,999	18.3	3.4	69
5C	Golden Triangle	156.0	148.5	2,906	~ 2,168	1,841	17.8	3.3	64
5D	East Central Mississippi‡	. 10,5-	10.2	1,753	1,308	1,138	14.9	2.8	. 38
,			,						
	New York:	202.4	A 1	A 0 =40		40.000			***
6A	Southern Tier West	282.1	275.4	\$3,700	\$2,761	\$2,679	3.0%	0.6%	81
6B	Southern Tier Central	219.2	217.8	3,939	2,939	2,791	5.3	1.0	86
6C	Southern Tier East	580.0	563. 3	4,004	2,987	2,948	1.3	0.3	88
١	North Carolina:			•	•	•			
7A	SW North Carolina	125.7	116.0	\$3,077	< \$2,296	\$1,999	14.8%	2.8%	67
.7B	Land-of-Sky	237.5	223.6	3,940	2,940	2,511	17.1	3.2	86
70	Isothermal [‡]	96.5	89.7	3,572	2,665	2,300	15.9	3.0	78
7D	Region D	153,4	139.4	3,049	2,005 2,275	1,920	18.5	3.5	67
7E	Western Piedmont [‡]	147.6	136.5	3,669	2,737	2,421	13.1	2.5	80
7G	NW North Carolina .	357.4	333.8	4,424	3,301	2,798	18.0	3.4	97
• 0	THE PROPERTY OF THE PARTY OF TH	UV 717	000.0	1) 16-T			1014	· · · · · · · · · · · · · · · · · · ·	

	,	Ponul	ation*	1969—1974 Income Chariget						
• .	and the second	July 1,	April 1,	Per C	apita Money	locometa.	Total	Annual	1974 per capita	
LDD Code	State and Local Development District	1975	1970 (thousands)	1974	1974 in	1969	(percent)	na flate (Descent)	Incomé Index (U.S. = 100)	
	· (· · · · · · · · · · · · · · · · · ·		7			· Or			A STAN	
,	Ono:			1		***	10.40.	•		
8A		483.7	445.9	\$3,474	\$2,592	\$2,376	9.1%	1.8%	70	
· 8B	Buckeye Hills-Hocking Valley		219.0	3,352		2,305	8.5	1.6	73	
- 8C	Ohio Mid-Eastern	480.3	464.9	3,876	2,892	. 2,572	12.4	2.4	85	
- '	Pennsylvania:	• •		· · · •	6) 6		\ \\.			
`9A		750.3	~ 733.0	\$3,947	\$2,945	\$2,685	9.7%	1.9%	86	
9B	North Central Pennsylvania	238.2	231.5	3,543	2,643		9.0	1.7	77.5	
90	Northern Tier	168.7	157.0	3,409	2,543	2,424	4.9	1.0	75	
9D		894.3	873.9	3,807		2,625	8.2	1.6	83	
9E	SW Pennsylvania	2,816.7	2,875.1	4,485		3,018	10.9	2.1	98	
、 9F	Southern Alleghenies	496.6	490.4	3,795	and the second s	2,509	12.9	2.4	83 1	
9G		597.6	569.6	3,568	4.1	2,515	·5.8	1.1	78	
		•		. ' '		•	•		•	
· 10Ã			•	•			··			
	SCACOG	723.9	656.4	\$3,976	\$2,966	\$2,571	15.4%	2.9%	87	
	Tennessee:	. L				••			. • • · · · · · · · · · · · · · · · · ·	
11A		212.2	193.7	\$2,886	\$2,153	\$1,852	16.3%	3.1%	63	
118	· · · · · · · · · · · · · · · · · ·	758.8		3,701		2,374		3.1	81	
110	~	382.8	359.4	3,538		2,305	14.5	2.7	77	
110		63.0	59.9	3,519		2,310	13.7	2.6	77 °	
116		450.8	420.5	3,850		2,543	13.0	2.5	84	
				•	• • •	, 2			. 1	
,	Virginia:				. #0.050). 04.704		C 70/	and the second	
12/		95.4	84.8	\$3,153		\$1,781	32.1%	5.7%	69	
128		124.8	112.5	3,271		1,826	33.7	6.0	72 72	
120		169.5	159.4	3,292		. 2,146	14.5	2.7	72	
120		59.3	56.1	3,613		2,432	10.8	2.1	79	
12E		51.8	49.7	3,756		2,417	15.9	3.0	8 <u>2</u> 70	
12F	Central Shenandoah‡	7.9	7.7.7	3,201	2,388	1,999	19.5	3.6	70	
	West Virginia:	•								
13/	Region 1	251.7	238.5	\$3,334	\$2,488	\$2,038	22.1%	4.1%	73	
13E	Region 2	269.2	266.8	3,518		2,254	16.5	3.1	77	
130		293.5	291.6	4,099		2,651	15.4	2.9	90	
. 130	• = •	129.0	122.7	3,089		1,904	21.0	`3.9	68	
13E		164.4	160.4	3,628		2,405	12.6	2.4	79	
13F		253.6	243.8	3,612		2,372	13.6	2.6	79 \	
136		110.9	103.5	2,914		1,855	17.2	3.2	64	
→ 13F		63.1	59.3	3,066		2,015	13.5	2.6	67	
131		73.2	66.2	3,671		2,425	12.9	2.5	80	
13J		119.5	121.4	4,087		2,736	11.5	2.2	. 189	
13Ř		71.2	70.2	4,706		2,954	18.9	3.5	103	
. • • •	₹		, , , , , , , , , , , , , , , , , , , 	,	* 1	,,	· · · · · · · · · · · · · · · · · · ·			

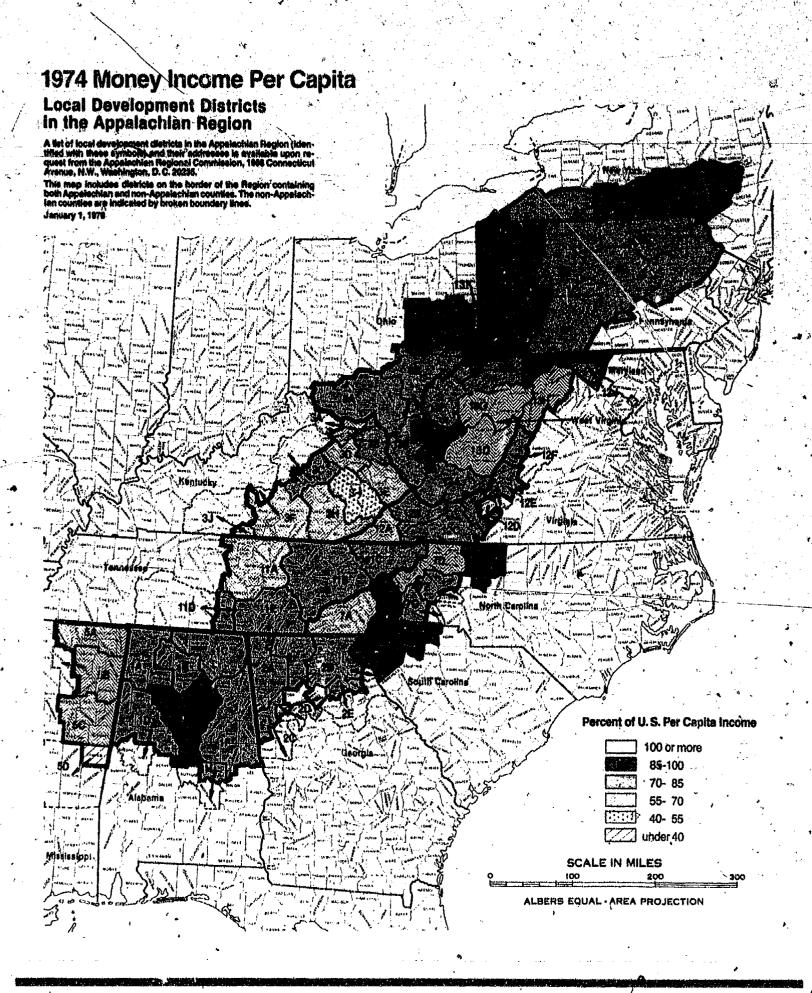


^{*}U.S. Bureau of Census population and per capita income estimates for revenue sharing published in *Current Population Estimátes* (Series P-25, Nos. 649–698), Washington, D.C., 1977.

† 1974 income expressed in approximate 1969 dollars to eliminate inflation. The factor used is 1974/1969 = 1.3403 based on a weighted index composed of disposable personal income and cost of government purchases of goods and services used as a deflator of 1974 dollars. Source: *Economic Report of the President*, January 1978, Washington, D.C., 1978. Tables B-3 and B-22. 1969–1974 income change is measured after adjustment for inflation.

†Data are only for that portion of the local development district in the Appalachian Region.

§Includes Perry County, Pennsylvania.





-Table 26

Poverty Status and Incidence Among Selected Population Groups Appalachian Region and United States 1970 Census

•					Persons t	elow Poverty L	evel
		Families below !	overty Level		The same of the sa	Parsons	Persons
Geographical Division	Total Number of Familles	All Families (percent)	White Families (percent)	Black Families (percent)	All Persons (percent)	65 Years and Under (percent)	and Over (percent)
inited States	5,462,216	10.7%	8.6%	29.8%	13.7%	12.2%	27.3%
Appalachian Region	701,759	14.8%	13.5%	36.0%	18.1%	16.0%	36.6%
Subregions Northern Appalachia	258,562	10.3%	9.9%	25.7% 24.0	13.4% 14.8	11.3% 12.6	30.3% 33.8
Maryland New York Ohio	6,343 20,959 37,534	៛1.5 8.1 13.0	11.3 8.0 12.8	17.9 24.0	11.5 16.0	9.5 13.5	29.3 36.3
Pennsylvania West Virginia	133,381 60,345	8.7 16.4	8.2 16.0	25.5 , 30.4	11.4 20.4	9.5 18.1	27.5 38.4
Cantral Appalachia Kentucky	135,969 75,722 24,796	30.0% 33.6 27.5	29.8% 33.5 27.2	38.3% 43.3 42.6	34.7% 38.8 31.1	32.9% 37.2 28.5	49.9 % 51.9 52.5
Tennessee Virginia West Virginia	14,099. 21,352° "	27.5 24.9	27.4 24.2	38.4 34.1	31.3 29.8	29.4 28.3	-48.8 42.3
Southern Appalachia , Alabama	307,228 102,181	17.3% 18.4	14.5% 14.1	39.2% 40.2	20.6% 22.1	18.3% 19.9	43.3% 43.7 45.0
Georgia Mississippi North Carolina	31,904 29,728 44,935	14.7 28.1 • 16.1	13.6 19.0 14.8	31.2 58.7 30.5	16.9 33.8 18.8	14.4 , 31.0 16.3	55.6 41.3
South Carolina Tennessee	. 22,306 64,217	13.0 17.1	9.9 16.0	32.3 35.3	. 16.2 20.3	14.2° 18.1 17.0	39.7 41.3 38.8
Virginia	11,957	16,4	16.0	27.0	19.4		* . • •.
State Parts* Tennessee Virginia	89,013 26,056	19.1% 21.0	18.3% 20.8) 35:7% 29.2	22.4% 24.4	20.1% . 22.3	43.8% 42.8
West Virginia	81,697	18.0	17:5	31.9	-22.2	20.1	√39.1

Source: Compiled by Appalachian Regional Commission from fourth count tabulations of the 1970 Census of Population. All data totals are independently rounded from unrounded source data; totals may not add due to rounding.



^{*}Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here.

[&]quot;Entire state.

Table 27

Pc verty Status of Total Household Population Appalachian Region and United States 1960–1970

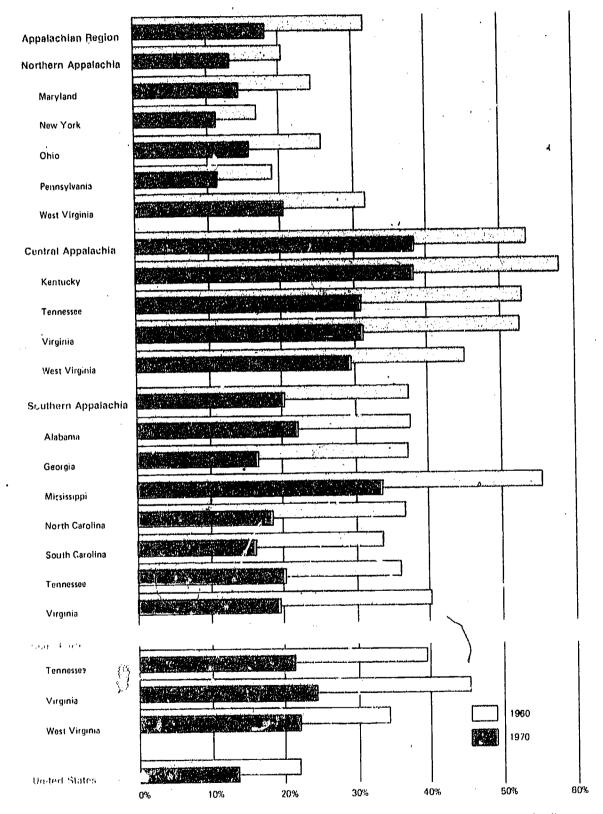
	Below Poverty	Level in 1970		Below Poverty I	Below Poverty Level in 1960				
Geographical Division	Number of Persons	Percent of Household Population	Poverty Index	Number of Persons	Percent of Heusehold Population	- Poverty Index			
United States	27,124,985	13.7%	100	38,684,545	22.1%	100			
Appalachian Region	3,228,449	18.1%	132	5,446,612	31.2%	141			
Subregions			•		•				
Northern Appalachia	1,268,311	13:4%	97	2,082:243	21.9%	99			
Maryland	30,214	14.8	108	47,939	24,9	113			
New York	116,917	11.5	, . 84	165,110	17.1	77			
Ohio	176,373	16.0	117	287,115	26.1	118			
Pennsylvania	663,677	11.4	84	1,126,903	19.3	88			
West Virginia	280,930	20.4	149	455,176	31.6	143			
Central Appalachia	397,502	34.7%	254 ·	1,012,491	54.1% *	245			
Kentucky	334,373	38.8	284	536,079	58.4	264			
Tennessee	102,574	31,1	227	173,198	53.6	242			
Virginia	61,372	31.3	. 229	121,596	53.0	240			
West Virginia	99,183	29.8	2!7	181,618	45.4	205			
Southern Appalachia	1,362,636	20.6%	151	2,351,878	38.7%	175			
* Alabama	463,306	22.1	161	762,251	33.8	175			
Georgia	135,957	16.9	123	258,812	38.5	174			
[™] Mississtppi	138.594	33.8	246	225,941	56.0	253			
North Carolina	190,440	18.8	137	341,949	37.2	169			
South Carolina	104,010	16.2	118	195,940	34.0	154			
Tennessee	278,487*	20.3	148	459,357	36.3	164			
Virginia	51,842	19.4	141	- 107,588	40.1	181			
State Parts*			•						
Tennessee	381,061	22.4%	164	. 632,555	39.9%	180			
Virginia	113,214	.4	178	> 229,184	24.4	208			
West Virginia†	380,113	22.2	162	636,794	34.6	157			

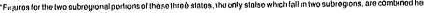
Source: Compiled by Appalachian Regional Commission from fourth count tabulations of the 1970 Census of Population, 1960 data file on computer tape furnished by the Office of Economic Opportunity (now the Community Services Administration). All data totals are independently rounded from unrounded source data; totals may not add due to rounding.



^{*}Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here. † Entire state.

Figure 7
Persons below Poverty Level as a Percentage of Household Population
1960 and 1970







Poverty Status of Families with Related Children Under 18 years and with Female Head Appalachian Region and United States 1970 Census

	All F	amilies witi	<u>ı Childre</u> ı	n	Fan	Families with Female Head				
;	Total with	Children	8	low Pov	erty Level	•	Families wi			verty Level
Geographical Division	Number of Families	Children per Family	Number of Families	Children per Family	Percent of Total Families	Percent of Total Children	Number of Families	Below Poverty Level	Par	Percent of Total Families
United States	29,540,540	2.36	3,480,419	3.03	11.8%	15.1%	3,468,430	1,498,283	2.87	43.2%
Appalachian Region	2,688,573	2.29	402,334	2.94	15.0%	19.2%	276,899	131,681	2.69	47.6%
Subregions	• • •			1				•		•
Northern Appalachia	1,383,846	2.32	145,770	2.88	10.5%	13.1% °	129,704	55,863	2.59	43.1%
Maryland * ,	3∈,506	2.23	3,620	2.85	11.9	15.1	2,897	1,318	2.44	
New York	148,504	2.42	12,086	2.92	8.1	9.8	13,351	4,638	2.65	34.7
Ohio	164,880	2.38	20,421	2.97	12.4	15.4	14,183	6,482	2.63	45.7
Pennsylvania	835,938	2.31	74,859		9.0	11.1	78,376	32,828	2.61	41.9
West Virginia ,	204,018	2.27	34,784	2.88	17.0	√21.7	20,897	10;597	2.53	50.7
Central Appalachia	265,087	2.38	82,409	2.95	31.1%	38.6%	30,384	18,698	2.56	61.5%
Kentucky '	132,489	2.42	46,532	2.98	35.1	43.2	15,213	9,785	2.60	64.3
Tennessee	51,141	2.23	13,682	2.82	26.8	33.9 .	5,565	3,019	2.48	54.2
Virginia	30,535	2.34	8,405	2.89	27.5	34.0	3,145	1,866	2.29	59.3
West Virginia	50,922	2.44	13,790	3.04	27.1	33.7	6,461	4,028	2.62	52.3
Southern Appalachia	1,039,640	2.23	174,155	2.99	16.8%	22.5%	116,811	57,120	2.83	48.9%
Alabama	328,455	2.28	60,086	3.04	18.3	24.4	39,479	21,556	2.94	54.6
Georgia	130,081	2.22	16,759	2.93	12.9	17.0	11,957	4,778	2.73	40.0
Mississippl	61,846	2.49	17,352	3.43	28.1	38.6	7,997	5,100	3.33	63.8
North Carolina	160,512	2.13	23,840	2.78	14.9	19.4	17,212	7,433	2.63	43.2
South Carolina	102,535	2.21	13,122	3.08	12.8	17.9	12,015	5,007	2.84	41.7
Tennessee	215,071	2.16	36,508	2.83	17.0	22.2	24,147	11,634	2.65	48.2
Virginia	41,140	2.16	6,488	2.80	15.8	20.5 .	4,004	1,612	2.22	40.3
State Parts		•	•			*				
Tennessee	266,212	2.17	50,190	2.83	18.9%	24.5%	29,712	14,653	2.61	49.3%
Virginia	71,675	2.23	14,893	2.85	20.8	26.5	7,149	3,478	2.26	48.7
West Virginia [†]	254,940	2.31	48,574	2.93	19.1	24.2	27,358	14,625	2.55	53.5

Source: Tabulated and compiled by Appalachian Regional Commission from fourth count computer tape data from 1970 Census of Population.

of poverty among Appalachian black families was one-fifth higher than the U.S. average level and among the older Appalachian population, one-third higher than the national average.

In the Appalachian Region, 19 percent of related children under 18 years of age were in families below the poverty level, more than one-

fourth higher than the national average in 1970 (15 percent). The total number of children in the Region was 402,000 or 11.5 percent of the nation's children in such families (see Table 28 on page 68). Within the Region the proportion of children in poverty families varied widely from 10 percent in Appalachian New York to 43 percent in Appalachian Kentucky,

with the proportion over one-third in all Central Appalachian state areas and in Appalachian Mississippi.

One-tenth of Appalachian families with related children under 18 were headed by women; 48 percent of these fell below the poverty level in 1970, but this proportion was only one-tenth higher than the U.S. average (43 percent).



^{*}Figures for the subregional portions of these three states, the only states which fall in two subregions, are combined here.

†Entire state.





Educational Attainment and School Enrollment in the Appalachian Region

he Appalachian Region lags behind the nation in educational attainment of its adults, youth and young children, as measured by four indicators from the 1970 Census: completion of four years or more of college; noncompletion of high school by youth; and school enrollment of children aged 3 and 4.

In the Region in 1970, 56 percent of all adults aged 25 years and over had not completed four years of high school, contrasted with 47 percent for the non-Appalachian U.S.; those completing four or more years of college constituted 7.3 percent of all Appalachians (10.7 percent in the rest of the country). See Figure 8 on page 71 and Table 29 on page 72.

Among youth aged 18 through 24, the proportion not completing high school was 31.5 percent in Appalachia vs. 27.0 percent in the rest of the nation (see Table 30 on page 73). For the same group an estimated 22 percent were enrolled in college in Appalachia, contrasted with 24 percent in the rest of the United States. Since students are counted in the census at their place of college residence, this statistic may reflect the presence of colleges and enrollments of nonresidents of the Region. It appears from the data that deficiencies in educational attainment of Appalachian youth in 1970 were somewhat less than those of their elders.

The "dropout rate," measured approximately by population aged 16 and 17 years not anrolled in school, was 14 percent in the Appalachian

Region in 1970 but only 10 percent in the U.S. (see Table 31 on page 74). Between 1960 and 1970 population in this age group increased by only 12.5 percent in the Region, while in the rest of the U.S. it grew by 40 percent! This reflects the large outmigration from Appalachia which occurred in the decade of the 1960s. This factor conditioned the result that the absolute number of "dropouts" in the Region fell by over 30 percent in the decade, while the *proportion* improved much less than in the U.S. generally.

Subregional differences in educational attainment generally show the greatest deficiencies in Central Appalachia and the highest levels of attainment in the northern subregion, with Appalachian New York and Pennsylvania frequently at levels more favorable than the U.S. average. Southern Appalachia lay somewhere between the extremes, with some characteristics (adults with four or more years of college) closer to the northern level and others ("dropout"; rate for 16- and 17-years olds) nearer the central level. For early childhood schooling, the southern subregion had in 1970 the highest proportion enrolled.

The measures of educational attainment are for 1970, and it is well to bear in mind that some characteristics have changed considerably since then. For the United States as a whole, data are available for 1975, showing the following:

Adults, less than four	1975	1970
years of high school	37.4%	47.6%
Adults, four years of		
college, or more	13.9	10.7
Youth 18-24, not com-		•
pleted high school	22.2	27.4
Youth 18-24, enrolled	~	
in college	26.3	23.6
Youth 16-17, not		
in school	#11.0 *	*10.7
Children 3-4, en-		
rolled in school	31.5	12.5

#Data for the United States show that in 1975 22 percent of youth 16-17 years old not in school had completed at least four years of high school and were not technically "dropouts."

**Data for the United States from census cross-tabulations show that 11.5 percent of youth 16–17 had completed at least four years of high school and were not "dropouts." These cross-tabulations are not available for the Appalachian Region.

These characteristics may also have improved in Appalachia, but at present the 1975 data are not available for the Region.

Vital Trends in the Appalachian Region

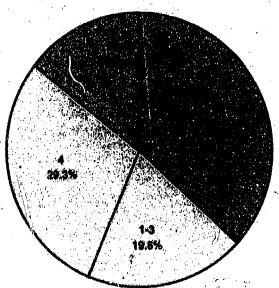
In 1975 the United States recorded the lowest birth and death rates in its history, and the Appalachian Region, paralleling the nation, also recorded its lowest level of vital rates. In recent years the Region has had lower crude birth rates than the nation and consistently higher death rates. With 8.94 percent of the U.S. total population in 1975, Appalachian births were only 8.5 percent, but the Region's deaths were 9.9 percent of the respective national totals. Hence, Appalachia had only 6.4 percent of the U.S. natural population growth for the year.

Vital rates vary remarkably in different parts of the Region (see Table 32 on page 75). In Northern Appalachia birth rates are relatively low and death rates high, in the Central subregion birth rates are high and death rates are above average levels, in Southern Appalachia birth rates are above the regional average but death rates are low. For state parts within subregions, the 1975 birth rate per 1,000 population varied from 11.7 in Appalachian Maryland to 18.3 in Central Appalachian West Virginia, and the 1975 death rate per 1,000

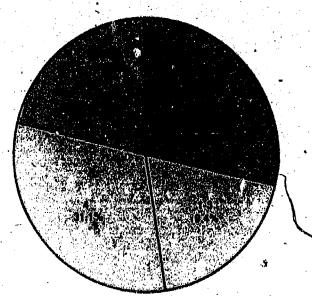
Figure 8

Years of School Completed by Persons 25 Years and Over

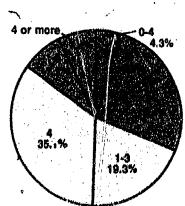
College Minist
High School College Minist
Elementary Minist



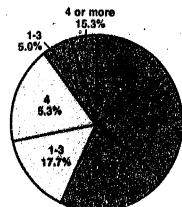
Appalachia
Number of Persons 25 Years and Over
10,066,768



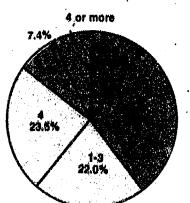
United States
Numbers of Persons 25 Years and Older
109,899,359



Northern Appelachia Number of Persons 25 Years and Older 5,473,330



Central Appalachia Number of Persons 25 Years and Older 935,159



Southern Appalachia Number of Persons 25 Years and Older 3,658,279



Table 29

Adult Educational Attainment Appalachian Region and United States 1970

Persons: 25 Years and Older

Geographical Division and Older (total number) (percent) (total number) - (percent)	mbined idex*
Halland Chalans	MAN
United States 109,899,359 52,373,312 47.7% 11,717,266 10.7% 1	0.00
Appalachian Region 10,066,768 5,661,734 56.2% 733,814 7.3%	6.7
Subregions	•
	9.3
	5.7
	22.0
	9.3
	2.5
	6.4
Central Appalachia 935,159 673,286 72.0% 46,619 5.0%	3.2
	2.7
	8.2
	4.9
West Virginia 180,196 122,115 67.8 8,575 4.8	4.4
Southern Appalachia 3,658,279 2,249,471 61.5% 269,823 7.4%	1.4
Alabama 1,150,149 670,645 58.3 90,371 7.9	6.8
	5.1
	7.8
	9.8
	4.8
	8.5
	14.9
State Paris†	
	3.9
	10.7
	31.6

Source: Tabulations are estimates by the Appalachian Regional Commission from U.S. Bureau of Census, "1970 Census of Population," fourth count computer data files (sample counts).



^{*}Combined index is mean of index of college education (based on percentage relative to U.S.) and inverse index of less than high school education. Values below 100 represent combined educational attainment levels below the U.S. average.

[†]Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here. [‡]Entire state.

Table 30

Youth Educational Attainment Appalachian Region and United States 1970

Persons 18-24 Years Old

•	_ '	STATES OF THE PARTY OF THE PART				
Geographical Division	Number of Persons 18–24 Years Old	Loss Than High School Education (total number)	Less Than High School Education (percent)	Enrolled in College (total number)	Enrolled in College (percent)	Combined Index
United States	23,383,006	6,395,824	27.4%	5,524,042	23.6%	100 /
Appalachian Region	1,998,005	629,301	31.5%	436,000	21.8%	90
*Subregions	·	1			•	
Northern Appalachia	1,044,581	247,750	23.7%	262,000	25.1%	111
Maryland	22,878	6,790	29.7	3,500	15.0	,79
New York	128,588	28,606	~ 22.2	43,000	34.0	133
Ohio	119,570	35,697	29.9	26,000	21.5	91
Pennsylvania	616,920	129,691	21.0	151,000	24.5	. 117
West Virginia	156,625	46,966	30.0	38,500	24.5	98
Central Appalachia	187,052	86,239	46.1%	29,500	16.0%	63
Kentucky	, 97,044	-4,148	45.5	18,000	19.0	70 🤸
Tennessee	35,810	15,632	43.7	5,500	16.0	65
Virginia	20,762	11,700	56.4	2,000	10.0	45
West Virginia	• 33,436	14,759	- 44 1	3,800	11.0	55 .
Southern Appalachia	766,372	295,312	38.5%	144,500	19.0%	75
Alabama	237,219	89,805	37.9	44,000	18.5	75 -
Georgia	92,637	•	45.8	12,000	13.0	57 .
Mississippi [*]	49,539	19,764	39.9	11,500	23.0	83
North Carolina	117,505	43,227	36.8	22,000	19.0	77
South Carolina	78,429	29,996	38.2	16,500	21.0	80
Tennessee	163,029	57,194	35.1	35,000	21.5	85
Virginia	28,014	12,880	46.0	3,500	13.0	57
State Parts*	•		•			
Tennessee	198,839	72,826	36.6	10,000	20.5	, 81
Virginia	48,776	24,580	50.4	5,50 0	11.0	51
West Virginia†	190,061	61,725	32.5	42,258	22.2	89

Source: 1970 Census of Population, fourth count computer data files (sample counts). Count of persons aged 18–24 enrolled in college available only for whole states and 1970 standard metropolitan statistical areas of 250,000 population or more; missing data estimated by ARC staff based on tabulations of correlative data.



^{*}Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here. † Entire state.

Table 31
Youth 16–17 Years Old Not Enrolled in School
Appalachian Region and United States
1960–1970

	Number	Persons 16-17 Years Old in 1970				Persons 16-17 Years Old in 1960			
Geographical Division	of Persons 16–17 Years Old 1970	Not Enrolled in School (total number)	Not Enrolled in School (percent)	Not Enrolled in School Index	Number of Persons 16–17 Years Old 1960	Not Enrolled in School (total number)	Not Enrolled in School (percent)	Not Enrolled in School Index	
United States	7,804,905	833,440	10.7%	100.0	5,710,672	1,089,165	19.1%	100.0	
Appalachian Region	716,868	101,359	14.1%	132.4	636,947	146,017	22.9%	120.2	
Subregions	. 1		•			•	•		
Northern Appalachia	379,254	37,192	9.8%	91.8	325,093	60,104	18.5%	96.9	
. Maryland	7,550	1,011	13.4	125.4	6,925	1,554 ,	22.4 '	117.7	
New York	∫ 40,950	3,494	8.5	79.9	32,333	4,707	14.6	76.3	
Ohio	/ 43,913	5,216	11.9	111,2	37,622	7,225	19.2	100.7	
Pennsylvania	/ 231,097	19,024	8.2	77.1	194,855	32,902	16.9	88.5	
West Virginia	/. 55,744	8,447	15.2	141.9	53,358	13,716	25.7	134.8	
Central Appalachia	75,149	17,087	22.7%	212.7	81,357	26,426	32.5%	170.3	
Kentucky /	36,993	9,362	25.3	237.0	40,038	13,209	33.0	173.0	
Tennessee	13,356	2,773	20.8	194.4	13,504	4,309	31.9	167.3	
Virginia /	8,781	1,734	19.7	184.9	10,196	3,764	36.9	193.6	
West Virginia	16,019	3,198	20.0	187.0	17,619	5,144	29.2	153.1	
Southern Appalachia	262,465	47,100	17.9%	168.1	230,497	59,487	25.8%	135.3	
Alabama	86,595	13,725	15.8	148.4 ·	72,794	17,158	23.6	123.6	
Georgia	30,261	7,645	25.3	236.6	26,603	7,446	28.0	146.8	
Mississippi	17,118	3,295	19.4	180.3	16,126	3,048	-18.9	99.1	
North Carolina	39,102	6,667	17.1·	159.7	36,173	9,274	25.6	-134.4	
South Carolina	25,839	4,329	16.8	161.4	20,707	6,739	32.5	170.6	
Tennessee	52,802	9,764	18.5	173:2	47,200	12,610	26.7	140.1	
Virginia	10,748	1,675	15.6	145.9	10,894	3,212	29.5	154.6	
State Parts*				•					
Tennessee	66,158	12,537	19.0%	177.5 ¹	60,704	16,919	27.9%	~146.1	
Virginia	19,529	3,409	17.5	163.5	21,090	6,976	33.1	173.4	
West Virginia†	71,763	11,645	16.2	152.0	70,977	18,860	26.6	139.3	

Source: 1970 Census of Population, fourth count computer data files (sample counts). 1960 Census of Population, sample count data. Tabulations by ARC staff.

^{*}Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here. † Entire state.

Table 32
Live Births, Total Deaths, Natural Increase and Vital Rates
Appalachian Region and United States

Geographical Division	Population July 1, 1975	Live Births 1975	Birth Rate 1975 (per 1,000)	Total Deaths 1975	Death Rate 1975 (per 1,000)	Natural ' Increase 1975	Natural Increase 1975 (per 1,000)	Birth Rate 1970 (per 1,000)	Death .Rate 1970 (per 1,000)
United States	213,032,000	3,144,198	14.8	1,892,879	8.9	1,251,319	5.9	· 18.3	9.4
Non-Appalachian United Sates	193,990,000	2,875,785	14.8	1,704,881	8.8	1,170,904	6.0	18.4	9.3
Appalachian Region	19,042,600	268,413	14.1	187,998	9.9	80,415	4.2	17.4	10.4
Subregions		45 ·				 		.	
Northern Appalachia	9,886,900	129,880	13.1	103,568	10.5	26,312	2.7	16.4	11.1
Maryland	215,600			2,120	9.8	394		16.5	10.5
New York	1,083,200	14,183	13.1	10,273	` 9.5	3,910		17.7	10.2
Ohio	1,186,300	18,030	15.2	12,276	10.3	5,754	4.9	17.7	11.3
Pennsylvania .	5,955,900	73,649	12.4	63,427	10.6	10,222	1.7	15.8	11.2
West Virginia	1,445,800		14.9	15,472		6,032	4.2	16.9	11.3
Centra! Appalachia	1,890,500	31,824		19,255	10.2 "	12,569	6.6	18.3	10.7
Kentucky	955,100	16,563		9,535		7,028	7.4	18.8	10.5
Tennessee	364,600	- 5,231	14.3	3,554		1,677	4.6	16.9	10.3
Virginia	217,200	3,574		2,159		1,415	6.5	17.9	10.3
West Virginia	353,500	6,456	18.3	4,007	11.3	2,449	6.9	18.7	11.7
Southern Appalachia	7,265,200	106,709		65,175		41,534	5.7	18.6	9.4
Alabama	2,240,700	34,018		20,833		13,185		18.7	9.6
Georgia	956,300	15,105		`7,705		7,400	•	20.4	8.7
Mississippi	444,000	7,560		4,389		3,171	7.1	19.3	10.7
North Carolina	1,115,900	14,832		9,863		4,969	4.5	17.4	9.2
South Carolina	722,100	10,471		6,128		4,343		18.9	9.2
Tennessee	1,501,100	21,163		13,429		7,734		18.3	9.3
Virginia	285,200	3,560	12.5	2,828	9,9	732	2.6	16.6	10.4
State Parts*					•				
Tennessee	1,865,700	· 26,394	14,1	16,983	9.1	9,411	5.0	. 18.0	0.5 ·
Virginia	502,300	7,134		4,987		2,147		17.2	10.4
West Virginia [†]	1,799,300	27,960		19,479	,	8,481	4.7	17.3	11.4

Source: Appalachian Region and state part data derived from vital statistics reports of individual states, for 1975 and 1970. Units States data from National Center for Health Statistics, summary reports on final natality and mortality statistics for 1975 and 1970. Population base data from U.S. Bureau of Census mid-year estimates, revised 1975 and 1970 data, compiled and tabulated by ARC staff for the Region and its parts.



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^{*}Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here. †Entire state.

population ranged from 8.1 in Appalachian Georgia to 11.3 in Central Appalachian West Virginia. Natural increase rates, reflecting remarkable differences in vital rates, varied from 1.7 per 1,000 population in Appalachian Pennsylvania to 7.7 in Appalachian Georgia and 7.4 in Appalachian Kentucky.

Between 1970 and 1975 both birth and death rates shifted downward, with the shifts in the Region parallel to the national trends. Within the Appalachian Region the shift in Central Appalachian West Virginia's vital rates was extraordinarily small. At the opposite extreme the natural increase rate fell sharply in the northeastern part of the Region in Appalachian New York, Pennsylvania and Maryland.

The United States birth rate remained the same (14.8 per 1,000 population) in 1976 as in 1975, as did the death rate (8.9). However, the age-adjusted death rate was the lowest in U.S. history. In 1977 provisional data indicate that the birth rate went up to 15.3, while the death rate fell further to 8.8. Projections of average birth and death rates for the 1980 period based on demographic-trend analysis (see Table 14 on page 35 and accompanying text) suggest that Appalachian birth rates may rise slightly relative to national changes but that death rates will remain at about present levels.

Infant Mortality Trends in the Appalachian Region

Infant mortality rates have dropped rapidly under the impact of modern health care, and the Appalachian Region is no exception to this trend. Infant mortality (deaths under 1 year of age per 1,000 live births) in Appalachia fell from 26.5 in 1960 to 22.9 in 1968 and 17.0 in 1975 (see Table 33 on page 77). The rate of reduction in 1960-68 was slower than for the nation as a whole (which fell from 26.0 to 21.8), but in the 1968-75 period the infant mortality rate fell in the Region at about the same rate as in the U.S. (where it dropped from 21.8 to 16.1). In 1975 the infant mortality rate for the Appalachian Region was 6 percent higher than for the U.S. For the Appalachian white population it was 13 percent higher than the rate for the U.S. white population in 1974, while for Appalachian nonwhites the rate was 5 percent higher than for the U.S. nonwhite population. Nonwhites (Apercent of Appalachian population) contributed 10 percent of the Region's births and 15 percent of its infant mortality in 1974. (see Table 34 on page 78).

Within the Region he infant mortality rate was highest in Central Ap-

palachia, but the improvement in this subregion over the 15-year period was the greatest in the Region and well above the national shift. The infant mortality rate in Southern Appalachia improved in 1960-68 by about the same amount as the U.S. average but accelerated its improvement in the later period (1968-75). Northern Appalachian infant mortality lagged in its improvement; lower than the U.S. average rate in 1960, it fell much less rapidly, so that in 1975 its infant mortality rate was about the same as the U.S. average (though, if adjusted for racial mix, it was higher). Within Appalachian state areas, 1975 infant mortality ranged from 14.7 in Maryland to 22.4 in Mississippi. The most rapid improvement occurred in 1968-75 in Mississippi, Georgia, North Carolina and Kentucky.

Appalachian Housing

In 1970 the Appalachian Region contained just under 9 percent of the nation's housing units but a much higher share than the nation of units with various deficiencies: lack of plumbing facilities (most often a flush toilet); poor structural condition and older age; lack of a telephone; or lack of a piped water supply. The average value of owner units (\$14,350) was only 74 percent of the U.S. level.

Table 35 on page 79 and Figure 9 on page 80 measure the number and proportions of occupied housing units within Appalachia which lack one or more plumbing facilities or have all plumbing but are overcrowded (1.01 or more persons per room). Deficient units constituted 38 percent of all occupied nousing in Central Appalachia but only 13 percent in Northern Appalachia and 21 percent in Southern Appalachia. Proportions varied from 11 percent in

Projected Vital Rates July 1, 1975—April 1, 1980

Geographical Area	Birth Rate (per 1,000)	Death Rate (per 1,000)	Natural Increase Rate (per 1,000)
United States* Appalachian Region	15.6 15.4	9.1 10.0	6.5 5.4
Northern Appalachia	14.2	10.5	3.7
Central Appalachia	17.2	10.2	7.0
Southern Appalachia	16.5	9.2	7.3

^{*}Projection model based on Census Series II projections with trended demographic projections for subnational areas.

Table 33

Live Births and Infant Deaths Appalachian Region and United States 1960–1975

	Live Births	Infant Deaths	Infa	nt Deaths per	1,000 Live Birl	hs	Infant Deaths	Live Births
Geographical Division	1975	1975	1975	1974	1988	1960	1960	1960
United States	3,144,198	50,525	16.1	16.7	21.8	26.0	110,873	4,257,850
Appalachian Region	268,413	4,571	17.0	17.7	22.9	26.5	10,271	387,604
Subregions	٠.							
Northern Appalachia	129,880	2,079	16.0	16.7	21.0	23.8	4,890	205,102
Maryland	2,514	37 🔭	14.7	15.7	17.9	25.0	101	4,048
New York	14,183	220	15.5	14.7	18.7	22.6	513	22,746
Ohio	18,030	278	15.4	15.9	21.7	24.0	582	24,246
Pennsylvania	73,649	1,164	15.8	17.1	21.1	23.9	2,946	123,240
West Virginia	21,504	380	17.7	17.5	» 22.1	24.3	748	30,822
Anniel Annieskia	31,824	- 569	17.9	19.1	25.2	30.7	1,302	42,418
Central Appalachia	16,563	284	17.1	17.4	24.1	30.9	663	21,480
Kentucky	-5,231	74	14.1	19.1	23.8	28.3	198	6,998
Tennessee	3,574	78	21.8	20.4	26.2	34,8	184	5,288
Virginia West Virginia	6,456	133	20.6	22.4	28.8	29.7	257	8,652
Couthorn Annalashia	106,709	1,923	18.0	18.5	24.8	29.1	4,079	140,084
Southern Appalachia Alabama	34,018	607	17.8	19.6	24.6	31.0	1,450	46,844
Georgia	15,105	248	16.4	17.3	` -24.0	29.1	442	15,166
Mississippi	7,560	169	22.4	22.4	33.2	32.9	325	9,884
7.4	14,832	283	19.1	17.8	26.0	26.8	553	20,634
North Carolina	10,471	198	18.9	19.2	24.7	27.6	384	13,922
South Carolina	. 21,163	342	16.2	16.7	22.4	27.6		28,368
Tennessee Virginia ,	3,560	• 76	21.3	- 15.4	21.8	27.2	143	* 5,266
State Parts*	•		•			-		1
Tennessee	26,394	416	15.8	17.2	22.7	27.7	980	35,366
Virginia	7,134	154	21.6	17.8	23.7	31.0	327	10,554
West Virginia [†]	27,960	513	18.3	18.7	23.5	25.5	1,005	39,474

Source: Data for 1968, 1974 and 1975 provided by state departments of vital statistics of the Appalachian states. Data for 1960 live births from 1962 City and County Data Book computer file data. 1960 infant deaths from Vital Statistics of the United States, 1960, Volume II—Mortality, Part B, Table 9-1, tabulated by ARC staff.

Note: Vital statistics based on registered occurrences only, adjusted to place of residence for deaths and adjusted to place of mother's residence for



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^{*}Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here. †Entire state.

Table 34

White and Nonwhite Live Births and Infant Deaths Appalachian Region and United States 1974

•	To	otal Populat	ion		Vhite Populat	tion Nonwhite Popt			pulation	
Geographical Division	Live Births	Infant Deaths	Infant Deaths per 1,000 Live Births	Live- Births	infant Deaths	Infant Deaths per 1,000 Live Births	Live Bidhs	infant Deaths	Infant Deaths per 1,000 Live Births	
United States	3,159,958	52,776	16.70	2,575,792	38,249	14.85	584,166	14,527	24.87	
Appalachian .		107 8 19 11 12			,,-		•			
Region .	273,442	4,838	17.69	245,635	4,109	16.73	27,807	729	26,22	
Subregions				•	` `	`		•		
Northern Appalachia	130,776	2,187	16.72	124,963	2,025	16.20	5,813	162	27.87	
(Maryland	2,616	41	15.7	2,543 •	40	15.7.	73	. 1	14.	
New York	14,240	209	14.7	13,831	201	14.5	409	8	20.	
Ohio	17,762	282	15.9	17,282	273	45.8	480	9	19.	
Pennsylvania	74,821	1,281	17.12	70,728	્ 1,153 ે	16.30	4,093	128	31.3	
West Virginia	21,337	374	17.5	20,579	358	17.4	758	16	21.	
Central Appalachia	30,545	582	19.05	29,588	559	18.89	957	23	24.0	
Kentucky	15,484	269	17.4	15,172	266	17.5	312	3	10.	
Tennessee	5,233	100	19.1	5,097	96	18.8	136	. 4	29.	
Virginia	3,529	72	20.4	3,474	70	20.1	, 55	2	36 . ´	
West Virginia	6,299	141	22.4	5,845	127	21.7	454	14	31.	
Southern Appalachia	112,121	2,069	18.45	91,084	1,525	16.74	21,037	. 544	25.86	
Alabama	35,002	686	19.6	25,579	400	17.8	9,423	, 230	24.4	
Georgia	15,966	276	17.3	14,514	244	16.8	1,452	32	22.0	
Mississippi	8,083	181	22.4	4,973	79	15.9	3,110	102	32.8	
North Carolina	15,702	279	17.8	13,529	222	16.4	2,173	57	. 26:2 ·	
South Carolina	11,211	215	19.2	8,525	149	17.5	2,686	66	24.6	
Tenn e ŝsee	22,317	373	16.7	20,294	321	15.8	2,023	52	25.7	
Virginia	3,840	59	15.4	3,670	54	14.7	170	. 5	29.	
State Parts*				*	1 /s					
Tennessee	27,550	473	17.2	25,391	417 ′	16.4	2,159	56	25.9	
Virginia	7,369	131	17.8	7,144	124	17. <i>4</i> *	. 225	7	31.	
West Virginia†	27,636	515	18.6	26,424	485	18.4	1,212	30	. 24.8	

Source: Data provided by state departments of vital statistics of the Appalachian states and tabulated by ARC staff.



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^{*}Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here. * †Entire state.

Table 35

Occupied Housing Units with Deficiencies Appalachian Region and United States 1970

		Deficient Occupied Housing Units		Occupied Housing Units Lacking one or More Plumbing Facilities		Overcrowded Occupied Housing Units with Plumbing	
Geographical Division	Occupied Housing Units	(total number)	(percent)	(total number)	(percent)	(total number)	(percent)
United States	63,449,747	8,237,184	13,0%	3,772,817	45.8%	4,464,367	54.2%
Appalachian Region	5,640,042	1,034,077	18.3%	716,238	69.2%	317,839	30.8%
Subregions	•		•	<i>p</i>		اراً بالشاهيم بالتشاهيم. والاقتصاف السام التاكار التاكار	
Northern Appalachian	3,045,816	399,009	13.1%	, 238,927	59.9%	160,082	40.1%
Maryland	66,635	9,603	14.4	6,533	68.0	3,070	32.0
New York	324,076	26,152		12,250	46.8	13,902	53.2
Ohio ,	348,983	- 70,609°	20.2	50,319	74.3	20,290	28.7
Pennsylvania	1,860,471	205,379	11.0	106,621 ~	51.9	98,758	48.1
-West Virginia	445,651	87,266	19.6	63,204	72.4	24,062	27.6
Central Appalachia	522,620	200,793	38.4%	173,733	86.5%	27,060	14.5%
Kentucky	259,533	108,952	42.0	96,631	88.7	12,321	11.3
Tennessee	104,525	34,418	32.9	29,681	86.2	4,737	13.8
Virginia	7 57,725	24,310	42.1	21,386	88.0	2,924	12.0
West Virginia	100,837	33,113	32.8	26,035	78.6	7,078	21.4
Southern Appalachia	2,071,696	434,275	21.0%	303,578	69.9%	130,697	30.1%
Alabama	653,726	132,000	20.2	90,049	68.2	41,951	31.8
Georgia	247,892	52,824	21.3	35,619	67.4	17,205	32.6
Mississippi +	123,903	39,544	31.9	32,406	81.9	7,138	18.1
North Carolina	323,004	65,114	20.2	45,237	69.5	19,877	30.5
South Carolina	201,559	37,623	18,7	23,403	62,2	14,220	37.8
Tennessee	437,217	82,153		55,865	68.0	26,288	32.0
	84,305	25,017	29.7	20,999	83.9 ·	4,018	16.1
Virginia /	04,300	ζ υ ₁ υ1 <i>1</i>	43.1	೭೮, ಶಾನ	00.0	-1,010	
State Parts*			04 54	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		64 ∩nπ *	26.6%
Tennessee 🔅	541,742	116,571	21.5%	85,546	73.4%	31,025	
Virginia	142,030	49,327	34.7	42,385	85.9	6,942	14.1
West Virgina [†]	546,488	120,379	22.0	89,239	74.1	31,140	25.9

Source: 1970 Census of Pouplation and Housing, first count computer file data (100 percent count).

^{*}Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here. †Entire state.

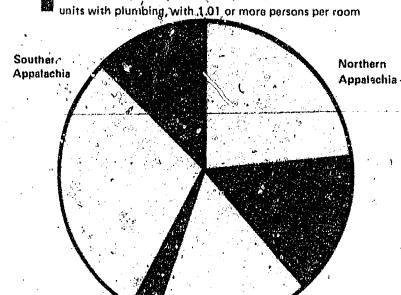
Figure 9

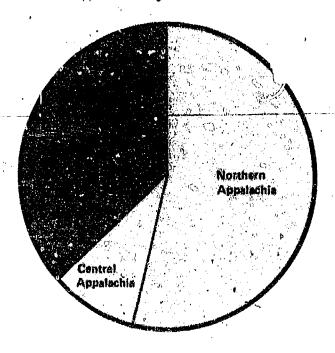
Occupied Housing Units with Deficiencies

Total Occupied Housing Units

Appalachian Region = 1,034 million (18,3% of total occupied housing units)
units lacking 1 or more plumbing facilities

Appelachian Region = 5.64 million





Percentage of Occupied Housing Units with Deficiencies

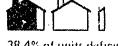
Central Appalachia

Northern Appalachia



13.1% of units deficient

Central Appalachia



38 4% of units deficient

Southern Appalachia



21.0% of units deficient

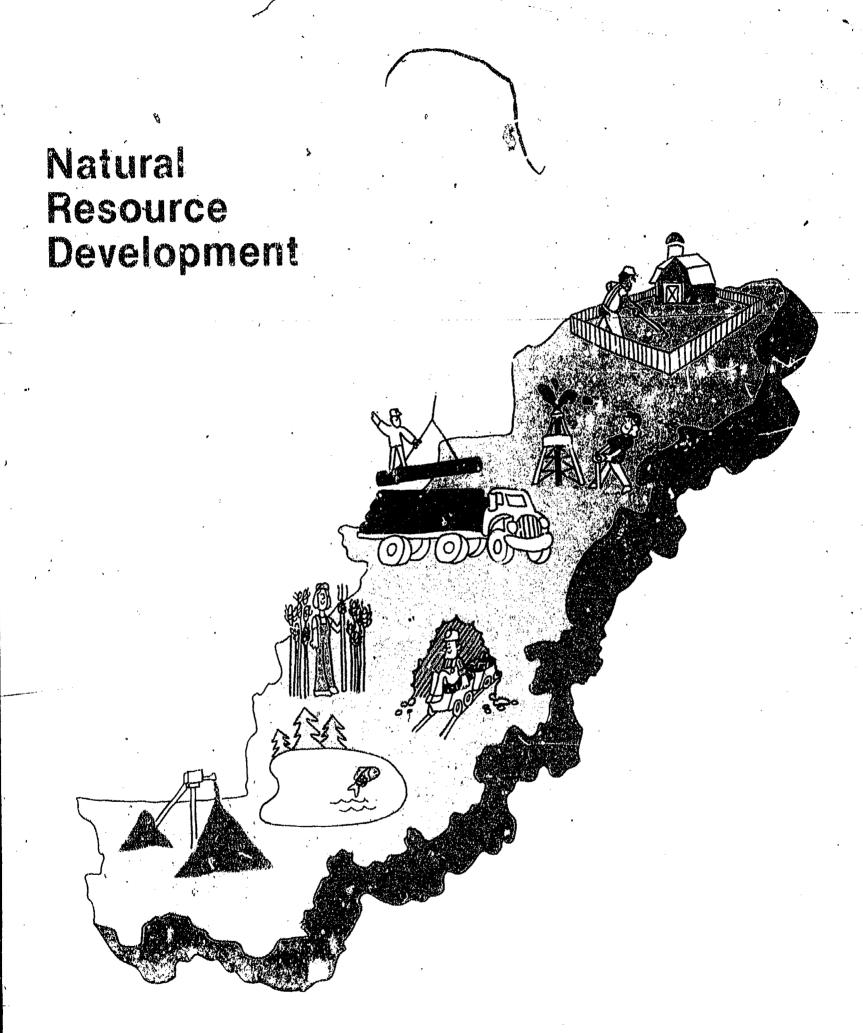


250,000 occupied units

northern metropolitan counties to 44 percent in Central Appalachian lural counties. Nearly seven out of ten deficient units in the Region had plumbing deficits; in Central Appalachia this proportion reached 86 percent, while in the northern subregion it was only six out of ten.

Changes in definitions make comparisons with 1960 difficult, but on a relative scale, it appears that housing in Northern and Southern Appalachia improved more rapidly than the national average, while Central Appalachian housing lagged behind, probably in part because of

the very high rate of outmigration during the 1960s. The Region as a whole showed a slight improvement relatively but remained with deficiencies about 45 percent higher than the national proportion in 1970 (as measured by the two criteria used)





Appalachian Coal Production

ppalachia supplied 61 percent of all coal produced in the United States in 1975. The coal is found chiefly in Northern and Central Appalachia. which mined 32 and 26 percent of total U.S. production, respectively (see Table 36 on page 83 and map on page 84). In contrast, Southern Appalachia mined only 4 percent of the U.S. total in 1975, and this production was concentrated in Alabama and Tennessee. Three states, Kentucky, Pennsylvania and West Virginia, produced 72 percent of Appalachian coal in 1975. At the same time four other states, Mississippi, New York, North Carolina and South Carolina, produced no coal at all.

Surface-mined coal, which includes coal produced by strip, auger and strip-auger methods, has become more important to Appalachia's coal industry in recent years. Between 1970 and 1975 the proportion of surface-mined coal in Appalachia jumped from 35 to 44 percent of the total. However, it still remains less than other areas of the country in which surface-mined coal accounted for 73 percent of 1975 production. Underground-mined coal, though still constituting 56 percent of Appalachian coal production in 1975, slipped rapidly from 65 percent of the Region's production between 1970 and 1974.

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Mineral industry establishments and operations in the Appalachian Region were 22 percent of the total number in the nation in 1972, but this relatively

high level was essentially due to coal mining operations, which comprised 84 percent of the U.S. total number and accounted for 54 percent of all mineral establishments in the Region (see Table 37 on page 85). However, for both coal and oil and gas operations, the Appalachian industry is older than its counterparts farther west, and production per operation was less than the national average. Three sectors of the nonmetallic minerals mining also had relatively high proportions of U.S. total establishments: dimension stone (estimated at about one-fourth); clays, ceramic and refractory materials (about one-fifth); and the crushed stone industry (just under one-fifth). These data are not surprising in view of the earth resources of the mountains and their location in the densely populated eastern United States, but the very low number of metallic ore mines (only 3 percent of the nation's) contrasts with other operations.

Within the Region mineral fuels accounted for 86 percent (4,833) of all mining operations. Of the 747 nonmetallic mineral establishments. crushed stone quarries are estimated to constitute about 45 percent of the total; sand and gravel extraction, about one-third; clays, ceramic and refractory materials, about one-tenth; dimension stone, 7 to 8 percent; and miscellaneous minerals, 6 to 7 percent. Bituminous coal mining is concentrated in Central Appalachia; Northern Appalachia has all of the anthracite coal mining (in Pennsylvania) and the lion's share of oil and gas extraction. In economic importance, bituminous coal leads in the North. Southern Appalachia has the majority of its operations in normetallic minerals, of which there is a diversity. In addition, most of the metal organic mines in the Region are in the South, concentrated in Tennessee.

Agriculture and Farm Land in Appalachia

The Appalachian Region occupies a central location in and includes the most mountainous parts of the eastern United States. The Region accounts for the following shares of the total area comprised by the 26 states east of the Mississippi River:

- 23 percent of the total land area (1970)
- 21 percent of the total farm population (1970)
- 18 percent of the total farm acreage (1974)
- 13 percent of the total value of farm land and buildings. (1974)

Appaiachian farms are small (average: 146 acros in 1974) even by eastern U.S. standards (see Table 38 on page 86). In addition, the value of land and buildings per acre is significantly lower (\$442) than elsewhere in the eastern United States (\$619). Hence, the average value per farm is only one-half (\$64,400) the value for farms in the non-Appalachian eastern U.S. (\$129,300).

Farm production in Northern Appalachia is specialized in dairying, in Central Appalachia in livestock and crops and in Southern Appalachia in poultry and poultry products. Farm size is smallest in Appalachian North Carolina, but total value of land and buildings per acre is lowest in West Virginia. These characteristics are in part inherited from earlier days of isolation and subsistence farming as well as related to the rugged topography. The 1974 average value of land and buildings per farm varied widely in the Region from \$41,200 in Kentucky to \$122,500 in Appalachian Maryland.

Table 36 **Coal Production** Appalachian Region and United States 1970–1975

	•	1975						
Geographical Division	Underground (in thousand short tons)	Surface (in thousand short tons)	Underground and Surface (in thousand short tons)	1970 Underground and Surface (in thousand short tons)	Percent Change 1970–75			
United States	293,467	. 361,174	654,641	612,661	6.9%			
Non-Appalachian - United States	69,089	184,602	253,690	187,157	35.5%			
Appalachian Region	224,378	176,572	400,951	425,504	- 5.8%			
Subregions Northern Appalachia Maryland	113,116 • 104	94,529 2,502	207,64 4 2,606	232,612 7 1,615.	- 10.7 % 61.0			
New York Ohio Pennsylvania West Virginia	15,416 45,272 52,324	29,815 45,069 17,343	45,231 90,340 69,667	53,285 90,219 87,493	-15.5 0.1 -20.4			
Central Appalachia Kentucky Tennessee Virginia West Virginia	102,734 40,628 2,892 23,181 36,033	66,550 46,628 4,010 12,329 3,583	169,285 87,257 6,7,2 35,510 39,616	171,000 72,502 6,904 35,016 56,528	- 1.0% 20.4 - 0.0 1.4 - 30.0			
Southern Appalachia Alabama Georgia* Mississippi North Carolina South Carolina Tennessee Virginia	8,528 7,614 ————————————————————————————————————	15,493 15,029 74 390	24,022 22,644 74 —————————————————————————————————	21,892 20,560 ————————————————————————————————————	9.7%			
State Parts† Tennessee Virginia West Virginia‡	3,806 23,181 88,357	4,400 12,329 20,926	8,206 35,510 109,283	8,236 35,016 144,071	- 0.4% 1.4 - 24.1			

Source: U.S. Bureau of Mines. 1975 Minerals Yearbook and 1970 Minerals Yearbook



^{*}No production reported for Appalachian Georgia in 1970.

†Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here.

‡Entire state.

1975 Coal Production

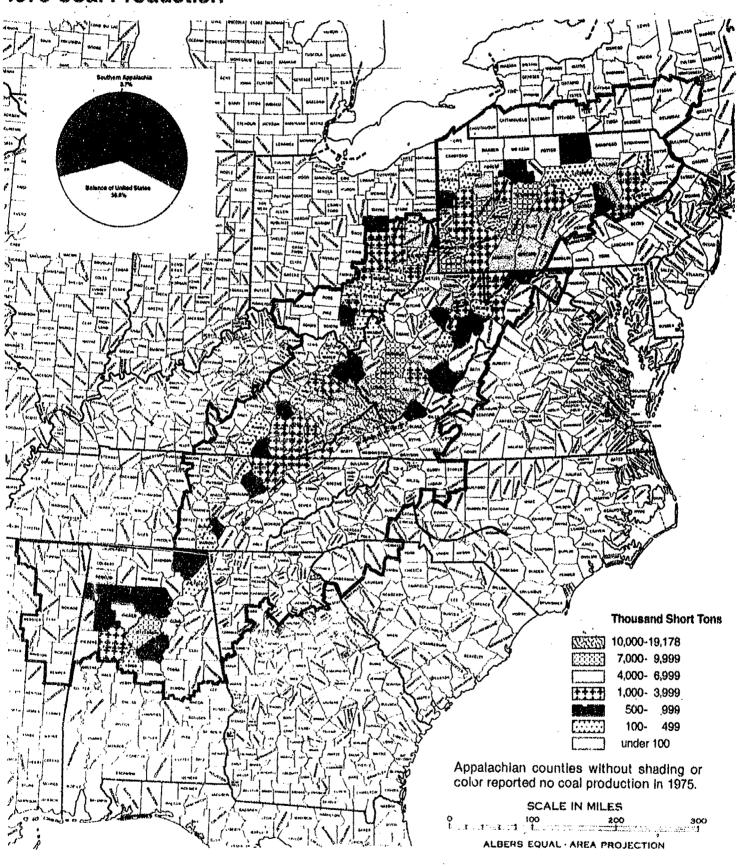


Table 37

nber of Mineral Industry Establishment

Number of Mineral Industry Establishments Appalachian Region and United States 1972

Geographical Division	All Mineral Industries	Metal Mining	Anthracite Mining	Bituminous Coal and Lignite Mining	Oil and Gas Extraction	Nonmetalic Minerals Mining	9
United States	25,269	1,014	230	3,365	14,498	6,162	
Appalachian Region	5,608	28	224	2,807	1,802	747	
Subregions				٠. ٠			Ÿ
Northern Appalachia	3,333	3	224	1,219	1,498	399	
Maryland	48	page 100 miles	·	30	. 4	.14	
New York	147	. 1	***	-	108	38	
Ohio	723	- 	-	185	441	97	
Pennsylvania	1,393	1	224	577	388	203	
West Virginia	1,022	1		427	547	47	•
Central Appalachia	1,824	4	*****	1,460	269	91	
Kentucky	909	1		697	162	49	
Tennessee	139	3	· 7	105	. 8	23	
Virginia	406		*****	387	9	10	
West Virginia	370		·······'	271	90	9 .	
Southern Appalachia	451	21	*****	128	45	257 °	
Alabama	167	3		90	18	56 -	
Mississippi	37				18	. 19	
North Carolina	· 56	1		1	2	. 52	
South Carolina	6	-			*	6	
Tennessee	115	13	-	33 ′	3,	66	
Virginia	34	2		4	1	27	
States Parts*			•				
Tennessee	254	- 16	-24-5	138	11	89	
Virginia	440	2		391	10	37	
West Virginia+	1,392	1	•	698	637	56	

Source: U.S. Bureau of Census, 1972 Census of Mineral Industries. Tabulations by ARC staff.



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^{*}Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here. †Entire state.

Farm Land and Selected Characteristics of Farms
Appalachian Region and States East of Mississippi River

• **	Percent							
		Farm Land 1974 (in thousands			Farms	1974	Average Farm Value per Acre	per Farm
Geographical Division	of acres)	of acres)	of Total	1974	1959-74	(in acres)	1974	1974
States East of Mississippi			, , , , , ,			**		
River (entire state)	546,126	227,991	41.7%	1,174,339	-43.4%	194	\$587	\$114,000
States East of Mississippi		,		ę				
River (Non-Appalachian part)	421,409	187,471	44.5%	896,536	-42.0%	209	\$619	\$129,300
Appalachian Region	124,717	40,520	32.5%	277,803	-47.6%	146	\$442	\$ 64,400
Subregions		•			, ,		,	
Northern Appalachia	53,492	16,202	30.3%	87,962	48.9%	184	\$425	\$ 78,200
Maryland ····	989	326	33.0	1,705	-48.0	191	641	122,500
New York	7,555	3,028	40.1	13,286	-45.8	228	396	90,200
Ohio	8,789	3,869	44.0	23,836	40.7	162	418	67,900
Pennsylvania	23,440	5,793	24.7	34,180		169	501	85,000
West Virginia	12,718		25.0	14,955	- 59:9	213	· 299 .	63,700
, Central Appatachia	20,420	7,176	35.1%	58,916	-44.2%	122	\$353	\$ 42,900
Kentucky	10,843	4,277,	39.4	34,986	-43.3	122	336	41,100
- Tennessee	4,819	1,942	40.3	16,576	-39.1	117	398	46,600
Virginia	2,072	646	31.2	5,400	- 45.5	120	345	41,200
West Virginia	2,687	211	11.6	1,954	- 71.0	159	314	50,100
Southern Appalachia	50,806	17,143	33.7%	130,925	48.2%	131	\$495	\$ 64,800
Alabama	15,744	5,114	32.5	34,603	-46.2	148	436	64,500
Georgia	6,915	1,791	25.9	14,031	-50.8	128	663	84 600
Mississippi	6,599	3,232	49.0	15,271	~58.9	212	343	72,500
North Carolina	7,607	1,959	25.8	22,458	-50.9	87	624	54,400
South Carolina	2,503	648-	25.9	4,750	-63.3	136	· 619	84,300
Tennessee	7,496	2,863	38.2	30,160	-37.0	95	. 594	50,400
Virginia	3,942	1,536	39.0	9,652	-41.1	159	416	66,200
State Parts*	1.49	.						•
Tennessee	12,314	4,805	39.0%	46,736	-37.8%	103	\$515	\$ 52,900
Virginia	6,014	2,182	36.3	15,052	- 42.8	145	395	57,300
West Virginia [†]	15,405	3,497	22.7	16,909		207	300	62,100

Source: Data are from 1974 Census of Agriculture, individual state volumes, tabulated and analyzed by ARC staff. 1959 base year data from 1959 Census of Agriculture summary data in 1962 City and County Data Book from ARC computer files.

Less than one-half of all land was in farms everywhere in the Region. For the entire Region farm acreage was 32 percent of the total, while it was 44 percent of the total land in the non-Appalachian eastern United States. The decline in the number of farms is parallel to national and regional *rends, with rapid declines in West varginia and the Appalachian parts of South Carolina and Mississippi.



^{*}Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here. †Entire state.

Local Governments



Local Governments in the Appalachian Gion

with 9 percent of the U.S. population, the Appalachian Region had in 1977, 10 percent of the number of local governments in the nation; these governments spent only 6 percent of all funds disbursed by local government in 1971–72.

Governmental complexity measured by number of governmental units per 100,000 population was greatest in Appalachian Ohio, New York and Pennsylvania. These three states, with 44 percent of regional population in 1976, accounted for 64 percent of the number of local governments in the Region and raised the average level of Northern Appalachia much above the rest of the

Region. Townships accounted for almost one-third of local governments in these three states, the only Appalachian states containing these units as active governments.

Table 39 shows detailed data as well as trends from 1972 to 1977 in the Region. During this five-year span there was a continued increase in special districts in all subregions, and a small gain in the number of municipalities and school districts. while townships remained stationary with a decline of only two in number. Overall, the Region gained (net) 427 local governments in five years; 371 of these were special districts. Northern Appalachia had by far the largest increase both in number and relative to its population. Within Northern Appalachia the major increase was in Pennsylvania, which increased its share of Northern Appalachia's local governments from 62 to 63 percent.

Appalachia's local governments raised \$3.4 billion of local general revenues in 1971-72, 5.2 percent of the national total locally raised. Revenue sharing by the states added to this by providing \$2.6 billion of state aid within the Region (7.45 percent of the national total of such aid). Federal general revenue sharing had not yet been implemented in the census year, and total federal direct aidto the Region's local governments amounted to \$0.3 billion in 1971-72, or 6.2 percent of the national total. The Region's level of per capita general revenues slipped in every category (locally raised, state and federal aid) relative to national trends in the five-year period (1967-72). Northern Appalachia showed both the highest level of expenditures and the greatest growth rate in the period 1967-72 among the three subregions (see Table 40 on page 90 and Figure 10 on page 91).



Table 39 Number of Local Governments by Type, Appalachian Region and United States
1972–1977

- Geographical Division-	1977					Local Governments	1972	1972-77
	Local Governments*	County Governments	-Municipalities	School Districts	Special Districts	per 100,000	Local Governments	Change in Number
United States	79,862	3,042	18,862	15,174	25,962	37.2	78,218	1,644
Appalachian Region	8,267	397	2,239	951	2,818	43.1	7,840	427
Subregions				•				
Northern Appalachia	5,858	143	1,320	692	1,841	. 59.2 _j	5,546	312
Maryland	45	3	. 24	0	18	20.9	43	2
New York	742	· 14	130	145	185	68.3	750	- 8
Ohio	896	28	226	119	81	75.2	899	_ 3
Pennsylvania	3,677	52	751	382	1,340	61.9	3,427	250
West Virginia	498	46	189	46	217	33.9	427	71
Central Appalachia	674	85	209	, 81	299`	34.6	631	43
Kentucky	376	' 49	97	71	159	38.3	366	10
Tennessee	160	20	47	1	92	42.8	143	17
Virginia	41	7	27	0	7	⁶ 18.2	41	0
West Virginia	97	.9	38	9	41	26.6) 81 .	16
Southern Appalachia	1,735	169	710	178	678	23.6	1,663	72
Alabama	566	35	256	75	200	25.0	518'	48
Georgia	311	3 5	132	47	97	31.9	308	CASC.
Mississippi	212	20	71	39	82	47.3	200	17.4
North Carolina	176	29	82	0	65	15.7	173	33 33
South Carolina	126	6	44 .	16	60	17.3	St. 131	_ 5
Tennessee	267	30	95	1	161	18.8	278	9
Virginia 🕴	57	14	30	0	13	.19.8		2 (a)
State Parts‡								
Tennessee 📝	447	50	142	, 2	253	23.6	421	व्हित्र विक
Virginia '	98	21	5.7	1 0	20	19.1	96	2
West Virginia [§]	· 595	⁵⁵ C	227	55	258	32.5	508	. 87

Source: U.S. Bureau of Cens. i. 1977 Census of Governments, Volume 1, Governmental Organization. County data tabulated by ARC staff for Appalachian Region. Multicounty governments are counted only in the county where centered to omit duplication.



^{*}Local governments include township governments in 1977 as follows: United States, 16,822; Appalachian Region and Northern Appalachia, 1,862; Appalachian parts of New York, 268; Ohio, 442; and Pedinsylvania, 1,152. Ratio based on number of local governments on January 1,4977, and population estimate for July 1, 1976, from U.S. Bureau of Census revenue-sharing estimate.

Figures for the two subregional portions of these three states, the only states which fall in two subregions, are combined here. Entire state.

Table 40

Local Government Finances Appalachian Region and United States

Fiscal Year 1971-72 Revenues Fiscal Year 1971-72 Expenditures ! ocally Raised Education Expenditures 1967-72 Revenue' per Capita Percent State Aid 88 Chango as Percent Percent Locally as Percent of Total of Total in General Raised of Total General per Capita Revenues Expenditures Expenditures General Revenue General General (millions) per Capita **Expenditures Expenditures** (millions) per Capita Revenues Revenues **United States** \$106,499.0 \$516 70.9% 62.3% 33.4% 45.7% \$105,243.0 \$318 61.8% \$343 54.5% **Appalachian Region** \$ 6,337.7 \$186 54.2% 41.3% 6,344.5 Northern Appalachtan **States** (Appalachian/portion) 3,399.6 \$223 3,382.9 \$402. 54.7% 63.3% 55.2% 40.4% 46.5 403 57.4 Maryland 89.3 210 49.7 45.7 85.0 74.0 New York 702.4 308 46.8 50.4 742.7 696 49.0 36.7 370.3 322 53.6 59,4 Ohio 370.8 192 59.6 68.2 56.7 Pennsylvania, 2,237.1 214 57.3 37.6 2,184.9 365 Central Appalachian States \$274 60.5% 51.8% (Appalachian portion) 1,340.9 \$139 54.1% 43.8% 1,348.9 210 73.3 32.1 Kentucky 220.5 85 38.2 57.4 188.6 48.8 49.2 540.8 174 36.3 563.6 317 Tennessee 57.2 64.4 Virginia 122.2 109 403 53.3 118.1 245 67.3 63.3 West Virginia* 52.6 44.2 478.6 271 67.1 477.4 142 Southern Appalachian States 54.4% \$312 49.3% 58.9% 1,597.3 \$168 41.3% 1,612.7 (Appalachian portion) 58.1 665.5 307 45.5 56.6 658.5 177 36.7 Alabama 316 52.0 59.6 180 58.2 39.5 266.6 Georgia 261.3 306 52.0 45.7 130.4 Mississippi 128.4 135 44.7 51.1 334 49.7 58.3 46.4 353.4 North Carolina 354.1 155 49.5 293 55.8 78.7 South Carolina 195.0 168 57.9 37.8 196.8

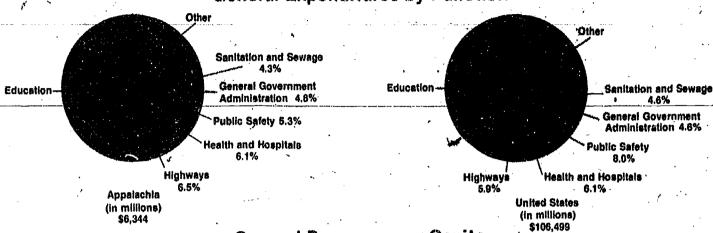
Source: U.S. Bureau of Census, 1972 Census of Governments, special computer data tape prepared by Governments Division for ARC. Tabulated by ARC data systems staff.

^{*}Entire state.

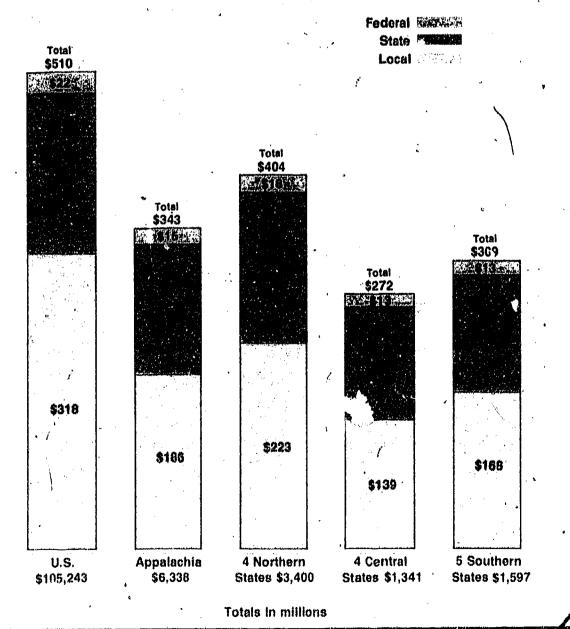
Figure 10

Local Government Expenditures by Function and General Revenues per Capita

General Expenditures by Function



General Revenues per Capita



Jerome P. Pickard was primarily responsible for preparing this reference book. Joe Cerniglia assisted in the data collection. The editors were Judith F. Maher and Jean Truman. Pete Middelthon designed the publication and Robert Oren/Graham Associates, Inc. was responsible for the illustrations.

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